Owner's Manual

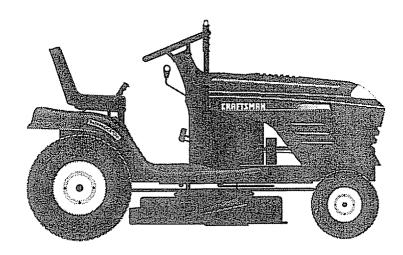
## CRAFTSMAN®

16.0 HP
ELECTRIC START
42" MOWER
AUTOMATIC
LAWN TRACTOR

Model No. **917.270641** 



- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Owner's Manual.

#### **CAUTION:**

Read and follow all Safety Rules and Instructions before operating this equipment. For answers to your questions about this product, Call:

**1-800-659-5917 Sears Craftsman Help Line**5 am - 5 pm, Mon - Sat

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#### 

#### LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts, etc.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- · Riding equipment used for commercial or rental purposes.

#### LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. (In-home warranty service will still be available after 30 days from the date of purchase but a standard trip charge will apply). This warranty applies only while this product is in the United States. This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

Sears, Roebuck and Co., D/817 WA, Hoffman Estates, IL 60179

#### 

#### **GENERAL OPERATION**

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.

- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.

#### SAFETY RULES

- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

#### **SLOPE OPERATION**

Slopes are a major factor related to lossof-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

#### DO:

- · Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

#### DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.

- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

#### CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices.
   Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary,

### SAMERAN

- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut.
   Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently.
   Adjust and service as required.











- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- · Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.

Look for this symbol to point out important safety precautions. It means CAU-TION!!! BECOME AWARE!!! YOUR SAFE-TY IS INVOLVED.

A CAUTION: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs always disconnect spark plug wire and place wire where it cannot contact spark plug.

- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall arass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

AWARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

#### PRODUCT SPECIFICATIONS

GASOLINE CAPACITY	1.25 GALLONS
AND TYPE:	UNLEADED REGULAR
	nedolan
OIL TYPE	SAE 30
(API-SF/SG/SH):	(above 32°F)
·	SAE 5W-30
	(below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG:	Champion RC12YC
(GAP: .030")	
GROUND SPEED	FORWARD: 0 - 5.7
(MPH):	REVERSE: 0-2.7
TIRE PRESSURE:	FRONT: 14 PSI
	REAR: 12 PSI
CHARGING	3 AMPS BATTERY
SYSTEM:	5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 25
	MIN. CCA:190
	CASE SIZE: U1R
BLADE BOLT	27–35 FT. LBS.
TORQUE:	

**CONGRATULATIONS** on your purchase of a Craftsman Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

#### MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

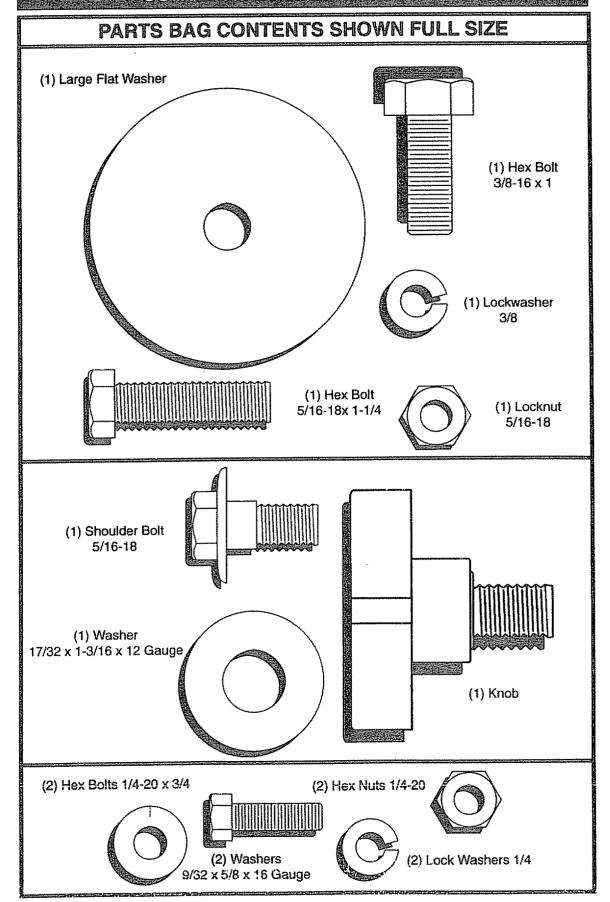
#### **CUSTOMER RESPONSIBILITIES**

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

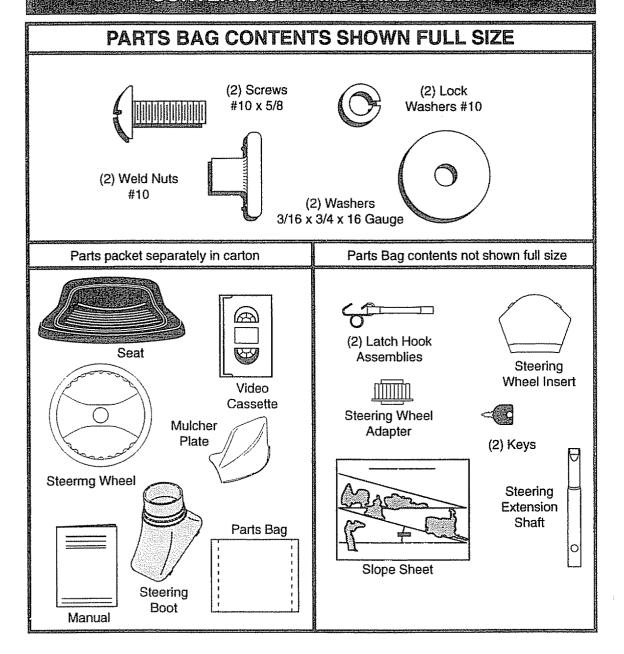
WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center (See REPAIR PARTS section of this manual).

### CONTENTS OF HARDWARE PACK



### CONTENTS OF HARDWARE PACK



#### ASSEMBLY

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness. Review the video cassette before you begin.

### TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes you need are listed below.

(1) 9/16" wrench (2) 7/16" wrenches (1) 3/4" Socket w/drive rachet

(2) 1/2" wrench

(1) Phillips Screw-

(1) 3/4" wrench

driver

(1) Utility knife

(1) Tire pressure gauge

(1)Pliers gauge
When right or left hand is mentioned in this manual, it means, from your point of view, when you are in the operating posi-

tion (seated behind the steering wheel).

### TO REMOVE TRACTOR FROM CARTON

#### **UNPACK CARTON**

- Remove all accessible loose parts and parts boxes from shipping carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of shipping carton, and lay panels flat.
- Check for any additional loose parts or boxes and remove.

### BEFORE ROLLING TRACTOR OFF SKID

#### ATTACH STEERING WHEEL

### ASSEMBLE EXTENSION SHAFT AND BOOT

 Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

IMPORTANT: Tighten bolt and nut securely to 18-22 ft. lbs. torque.

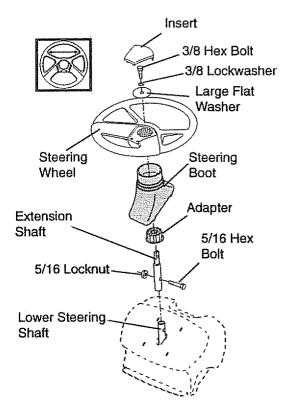
 Place tabs of steering boot over tab slots in dash and push down to secure.

#### **INSTALL STEERING WHEEL**

- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering wheel adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.

- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

IMPORTANT: Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.



# TO ROLL TRACTOR OFF SKID (See Operation section for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding discharge guard up against tractor.

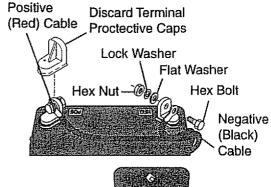
### HOW TO SET UP YOUR TRACTOR CONNECT BATTERY

ACAUTION: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc. Positive terminal must be connected first to prevent sparking from accidental grounding.

- Remove cardboard packing from seat pan and lift seat pan to raised position.
- Open battery box door and remove protective plastic.
- Remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- First connect RED battery cable to positive (+) terminal with hex bolt, flat washer, lock washer and hex nut as shown.
   Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close battery box door.

Open battery box door for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging



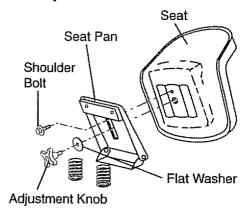


Door

#### **INSTALL SEAT**

Adjust seat before tightening adjustment knob.

- · Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.



#### **CHECK TIRE PRESSURE**

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

 Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 5 of this manual.

#### **CHECK DECK LEVELNESS**

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

### CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments sectoin of this manual. Verify that the belts are routed correctly.

#### **CHECK BRAKE SYSTEM**

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

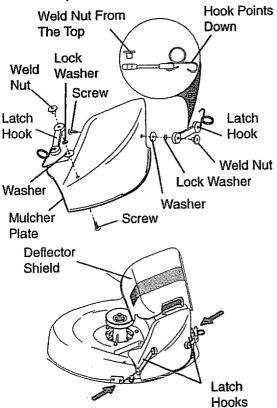
#### **INSTALL MULCHER PLATE**

 Install two latch hooks to mulcher plate using screw, washer, lock washer, and weld nut as shown.

**NOTE:** Pre-assemble weld nut to latch hook by inserting weld nut from the top with hook pointing down.

- Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

**ACAUTION:** Do not remove discharge guard from mower. Raise and hold guard when attaching mulcher plate and allow it to rest on plate while in operation.



### TO CONVERT TO BAGGING OR DISCHARGING

Simply remove mulcher plate and store in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

**NOTE:** It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.

#### *∨CHECKLIST*

### PLEASE REVIEW THE FOLLOWING CHECKLIST:

- All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- Check wiring. See that all connections are still secure and wires are properly clamped.
- Before driving tractor, be sure freewheel control is in drive position.

# WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- Become familiar with all controls their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

### OPERATION

These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



**BATTERY** 



**CAUTION OR** WARNING



**REVERSE** 



**FORWARD** 



FAST



SLOW



**ENGINE ON** 



**ENGINE OFF** 



OIL PRESSURE



LIGHTS ON



**OVER TEMP** LIGHT



**FUEL** 



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



**ATTACHMENT CLUTCH ENGAGED** 



REVERSE



**NEUTRAL** 



HIGH



LOW



PARKING BRAKE



IGNITION



**ATTACHMENT CLUTCH DISENGAGED** 





KEEP AREA CLEAR





(SEE SAFETY RULES SECTION)



SLOPE HAZARDS



**FREE WHEEL** (Automatic Models only)

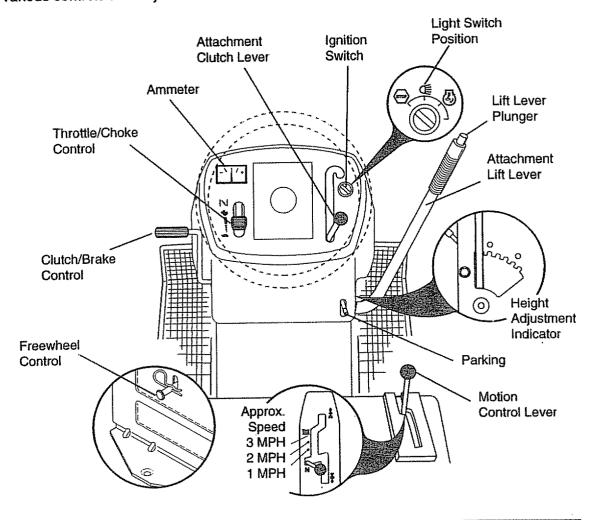


DANGER, KEEP HANDS AND FEET AWAY

#### KNOW YOUR TRACTOR

### READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



Our tractors conform to the safety standards of the American National Standards Institute.

ATTACHMENT CLUTCH LEVER: Used to engage the mower blades, or other attachments mounted to your tractor.

**LIGHT SWITCH**: Turns the headlights on and off.

**THROTTLE/CHOKE CONTROL**: Used to control engine speed.

CLUTCH/BRAKE PEDAL: Used for declutching and braking the tractor and starting the engine.

FREEWHEEL CONTROL: Disengages transmission for pushing or slowly towing the tractor with the engine off.

**MOTION CONTROL LEVER:** Selects the speed and direction of the tractor.

**ATTACHMENT LIFT LEVER:** Used to raise and lower the mower deck or other attachments mounted to your tractor.

LIFT LEVER PLUNGER: Used to release attachment lift lever when changing its position.

**IGNITION SWITCH:** Used for starting and stopping the engine.

AMMETER: Indicates battery charging (+) or discharging (-).

PARKING BRAKE: Locks clutch/brake into the brake position.



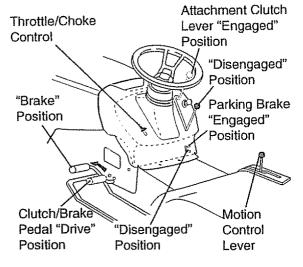
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over the spectacles, or standard safety glasses.

#### HOW TO USE YOUR TRACTOR

Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

#### TO SET PARKING BRAKE

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "EN-GAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.



#### **STOPPING**

#### **MOWER BLADES -**

 To stop mower blades, move attachment clutch Lever to "DISENGAGED" position.

#### **GROUND DRIVE -**

- To stop ground drive, depress clutch/brake pedal into full "BRAKE" position.
- Move motion control lever to neutral (N) position.

**IMPORTANT:** The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed. ENGINE -

Move throttle control to slow position.

**NOTE:** Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- · Never use choke to stop engine.

NOTE: Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.

ACAUTION: Always stop tractor completely, as described above, before leaving the operator's position, to empty grass catcher, etc.

#### THROTTLE CONTROL

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

# TO MOVE FORWARD AND BACKWARD The direction and speed of movement is controlled by the motion control lever.

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake and clutch/brake pedal.
- Slowly move motion control lever to desired position.

#### TO ADJUST MOWER CUTTING HEIGHT

The position of the attachment lift lever determines the cutting height.

- · Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

 The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.

 For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

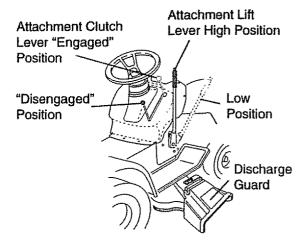
#### TO OPERATE ON HILLS

ACAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope. Use the slope guide provided at the back of this manual.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

IMPORTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- · Make all turns slowly.

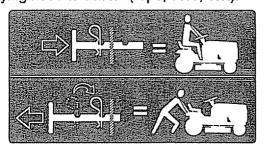


#### TO TRANSPORT

When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Freewheel control is located at the rear drawbar of tractor.

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control knob out and hold in position by inserting retainer spring into forward hole of control rod.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

NOTE: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).



### TOWING CARTS AND OTHER ATTACHMENTS

Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

### BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL ...

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.

- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

#### ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

**IMPORTANT:** When operating in temperatures below 32°F(0°C), use fresh, clean winter grade gasoline to help insure good

cold weather starting.

**AWARNING**: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

ACAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

#### TO START ENGINE

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISEN-GAGED" position.
- Move throttle control to choke position.

**NOTE:** Before starting, read the warm and cold starting procedures below.

• Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, move throttle control to fast position, wait a few minutes and try again. If engine still does not start, move the throttle control back to the choke position and retry.

WARM WEATHER STARTING (50° F and above)

- When engine starts, move the throttle control to the fast position.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

 When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position. This may require an engine warmup period from several seconds to several minutes, depending on the temperature.

#### **AUTOMATIC TRANSMISSION WARM UP**

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
- · Be sure the tractor is on level ground.
- Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
- Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can also be used during the engine warm-up period after the transmission has been warmed up.

NOTE: At a high altitude (above 3000 feet) or in cold temperatures (below 32 F) the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

#### **PURGE TRANSMISSION**

**ACAUTION:** Never engage or disengage freewheel lever while the engine is running.

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

IMPORTANT: Should your transmission require removal for service or replacement, it should be purged after reinstallation before operating the tractor.

- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine.
   After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds.
   Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

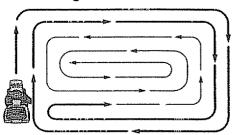
**NOTE:** During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- Move motion control lever to neutral (N) position. Shut off engine and set parking brake
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine.
   After the engine is running, move throttle control to half (1/2) speed. With
   motion control lever in neutral (N) position, slowly disengage clutch/brake
   pedal.
- Slowly move motion control lever forward; after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this pro-

- cedure with the motion control lever three (3) times.
- Your tractor is now purged and ready for normal operation.

#### **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.



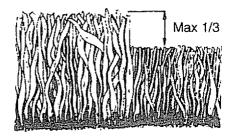
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings.
   Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle
  when mowing to assure better mowing
  performance and proper discharge of
  material. Regulate ground speed by selecting a low enough gear to give the
  mower the best cutting performance as
  well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

#### **MULCHING MOWING TIPS**

**IMPORTANT:** For best performance, keep mower housing free of built-up grass and trash. Clean after each use.

- The special mulching blade will recut
  the grass clippings many times and
  reduce them in size so that as they fall
  onto the lawn they will disperse into the
  grass and not be noticed. Also, the
  mulched grass will biodegrade quickly
  to provide nutrients for the lawn. Always
  mulch with your highest engine (blade)
  speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet.
  Wet grass tends to form clumps and
  interferes with the mulching action. The
  best time to mow your lawn is the early
  afternoon. At this time the grass has
  dried and the newly cut area will not be
  exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades. For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



#### 

#### **CUSTOMER RESPONSIBILITIES**

AS	MAINTENANCE SCHEDULE L IN DATES YOU COMPLETE GULAR SERVICE	8	EFORE E	VERY 8	E RS	AEBA E	HOUR'S	S HOU S HOU VERY S	ELSON ELSON	SEF	GE IVICE	E DAT	ES
	Check Brake Operation	0.00	0/				···		<u> </u>		ļ		
	Check Tire Pressure	6/	0/										
T	Check Operator Presence and Interlock Systems	<b></b>			-								
R	Check for Loose Fasteners	0.00				7		0/					
Ă	Sharpen/Replace Mower Blades			0/4				<u> </u>					
¥	Lubrication Chart			9/				0/	ļ	<del></del>			
Ö	Check Battery Level			0/6					1				
Ř	Clean Battery and Terminals/Recharge			W			-	0	1				
	Check Transaxle Cooling			8					<b>_</b>		<u> </u>		
	Adjust Blade Belt(s) Tension					<b>6</b> 5		<u></u>			<u> </u>		
	Adjust Motion Drive Belt(s) Tension					<b>3</b> /5			1		<u> </u>		
	Check Engine Oil Level	W	O. Andrew										
	Change Engine Oil			1,2,3				9					
E	Clean Air Filter			2 2							ļ	11	
N	Clean Air Screen			W 2				ļ			ļ	<u> </u>	
G	Inspect Muffler/Spark Arrester				3/			ļ					
N	Replace Oil Filter (If equipped)		<u></u>			1,2							
E	Clean Engine Cooling Fins		<u> </u>			<b>3</b> /2							,
_	Replace Spark Plug			<u> </u>		Barre	6						
	Replace Air Filter Paper Cartridge					W 2							
	Replace Fuel Filter					<u> </u>	3	<u></u>					

- 1 Change more often when operating under a heavy load or in high ambient temperatures
- 2 Service more often when operating in dirty or dusty conditions.
- 3 If equipped with oil filter, change oil every 50 hours.
  4 Replace blades more often when mowing in sandy soil.

#### **GENERAL RECOMMENDATIONS**

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your tractor. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

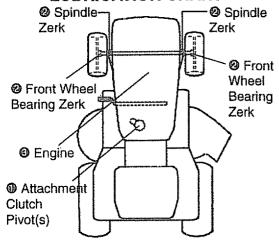
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

#### BEFORE EACH USE

- Check engine oil level.
- · Check brake operation.
- · Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- · Check for loose fasteners.

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free battery
- 7 Tighten front axle pivot bolt to 35 ft.-lbs. maximum.
  Do not overtighten.

#### **LUBRICATION CHART**



- 1 SAE 30 or 10w30 Motor OIL
- @ General Purpose Grease
- Refer to Maintenance "Engine" Section

IMPORTANT: Do not oil or grease the pivot points which have special nylon bear-ings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

#### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

#### **TIRES**

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 5 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

**NOTE:** To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

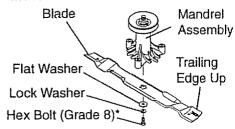
#### **BLADE CARE**

For best results mower blades must be kept sharp. Replace bent or damaged blades.

#### **BLADE REMOVAL**

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

**IMPORTANT:** Blade bolt is Grade 8 heat treated.



\*A Grade 8 heat treated bolt can be identified by six lines on the bolt head.

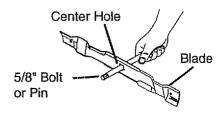
#### TO SHARPEN BLADE

**NOTE:** We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while it is on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).
- Slide blade onto an unthreaded portion
  of the steel bolt or pin and hold the bolt
  or pin parallel with the ground. If blade
  is balanced, it should remain in a horizontal position. If either end of the blade
  moves downward, sharpen the heavy
  end until the blade is balanced.

**NOTE:** Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.



#### BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its

life.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.
   NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers.
   Adding or checking level of electrolyte is not necessary.

TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- · Open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.

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- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum iellv.
- Reinstall battery (See "CONNECT BAT-TERY" in the Assembly section of this manual).

#### **V-BELTS**

Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

#### TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

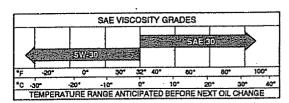
#### TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center.

#### **ENGINE**

#### LUBRICATION

Only use high quality detergent oil rated with API service classification SF, SG or SH. Select the oil's SAE viscosity grade according to your expected operating tem-



perature.

NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when

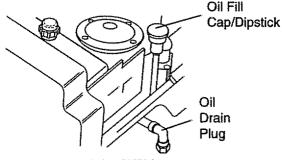
used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

#### TO CHANGE ENGINE OIL

Determine temperature range expected before oil change. All oil must meet API service classification SF. SG or SH.

- · Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- · Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- · Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill.
   For approximate capacity see "PROD-UCT SPECIFICATIONS" on page 5 of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.



#### **CLEAN AIR SCREEN**

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

#### AIR FILTER

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

· Remove knob(s) and cover.

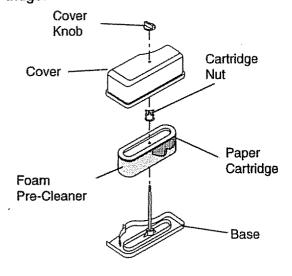
#### TO SERVICE PRE-CLEANER

- · Slide foam pre-cleaner off cartridge.
- · Wash it in liquid detergent and water.
- · Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace precleaner.
- Reinstall pre-cleaner over cartridge.
- · Reinstall cover and secure with knob(s).

#### TO SERVICE CARTRIDGE

- · Remove cartridge nut.
- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, nut, precleaner, cover and secure with knob(s).

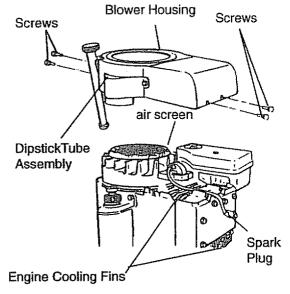
**IMPORTANT:** Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.



#### **ENGINE COOLING FINS**

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating.

- Remove screws from blower housing and lift housing and dipstick tube assembly off engine.
- Cover oil fill opening to prevent entry of dirt.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
- To reassemble, reverse above procedure.



#### **MUFFLER**

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

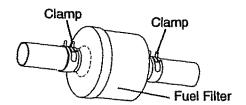
#### **SPARK PLUGS**

Replace spark plugs at the beginning of each mowing season or after every 100 shours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 5 of this manual.

#### IN-LINE FUEL FILTER

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor
- Be sure there are no fuel line leaks and clam.ps are properly positioned.



#### **CLEANING**

 Clean engine, battery, seat, finish, etc. of all foreign matter.

- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

#### SERVICE AND ADJUSTMENTS

**ACAUTION:** Before performing any service or adjustments:

- Depress clutch/brake pedal fully and set parking brake.
- · Place motion control lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- · Turn ignition key "OFF" and remove key.
- · Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

#### TO REMOVE MOWER

Mower will be easier to remove from the right side of tractor.

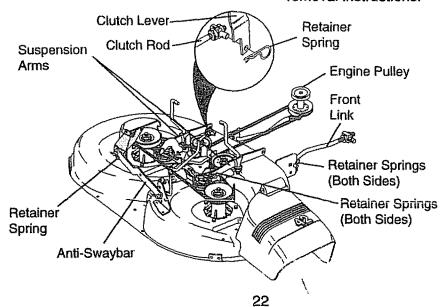
- Place attachment clutch in "DISEN-GAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- · Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.

- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links.

#### TO INSTALL MOWER

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.



#### TO LEVEL MOWER HOUSING

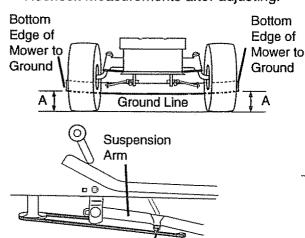
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

#### SIDE-TO-SIDE ADJUSTMENT

- · Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

**NOTE**: Each full turn of adjustment nut will change mower height about 1/8".

· Recheck measurements after adjusting.



#### FRONT-TO-BACK ADJUSTMENT

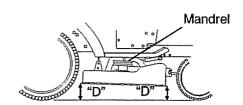
**IMPORTANT:** Deck must be level side-toside. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

Lift Link Adjustment Nut

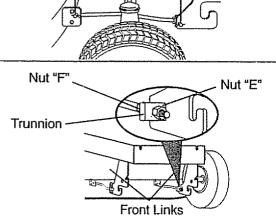
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links.
   Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.
- · Recheck side-to-side adjustment.



Both Front Links Should be Equal in Length



### TO REPLACE MOWER BLADE DRIVE BELT (See Illustration Next Page)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

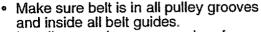
#### BELT REMOVAL -

 Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).

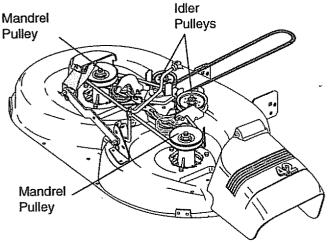
- Work belt off both mandrel pulleys and idler pullevs.
- Pull belt away from mower.

#### **BELT INSTALLATION**

· Install new belt in reverse order of removal.



Install mower in reverse order of removal instructions.



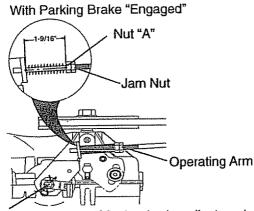
#### TO ADJUST BRAKE

Your tractor is equipped with an adjustable brake system which is mounted on the side of the transaxle.

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake oper-
- ating arm and nut "A" on brake rod.

  If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

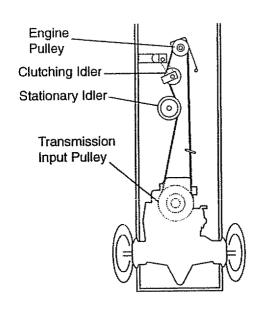


Do Not touch this nut. If further brake adjustment is necessary contact your nearest authorized service center/department 24

#### TO REPLACE MOTION DRIVE BELT

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE") MOWER" in this section of this manual.)
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Pull belt toward front of tractor and remove downward from around engine pulley.
- Install new belt by reversing above procedure.



#### TO ADJUST MOTION CONTROL LEVER

The motion control lever has been preset at the factory and adjustment should not be necessary.

If for any reason the motion control lever will not hold its position while at a selected speed, it may be adjusted at the friction pack located on the right side of transmission.

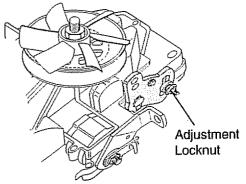
- Park tractor on level surface. Stop tractor by turning ignition key to "OFF" position, and engage parking brake.
- Adjust motion control lever by tightening adjustment locknut one half (1/2) turn.

**NOTE:** If for any reason the effort to move the motion control lever becomes too excessive, reverse the above adjustment procedure by loosening locknut 1/4 to 1/2 turn.

Road test tractor after adjustment and repeat procedure if necessary.

#### TRANSMISSION REMOVAL/REPLACE-MENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMISSION" in the Operation section of this manual.



#### TO ADJUST STEERING WHEEL ALIGN-MENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

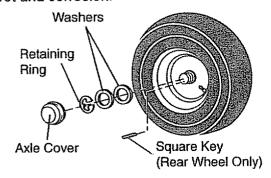
#### FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center.

#### TO REMOVE WHEEL FOR REPAIRS

- · Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- · Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- · Replace axle cover.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.



### TO START ENGINE THAT HAS A WEAK BATTERY

ACAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

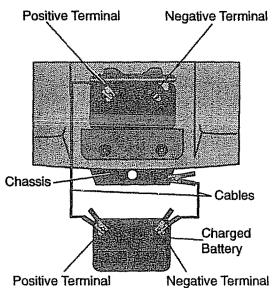
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

#### TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

### TO REMOVE CABLES, REVERSE ORDER -

- Remove BLACK cable first from chassis and then from the fully charged battery.
- Remove RED cable last from both batteries.



#### TO REPLACE HEADLIGHT BULB

- · Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- · Close hood.

#### INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

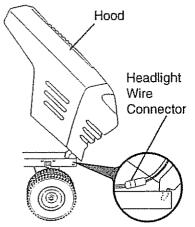
Check wiring. See electrical wiring diagram in the Repair Parts section of this manual.

#### TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

#### TO REMOVE HOOD AND GRILL AS-SEMBLY

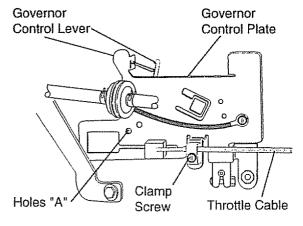
- · Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- · To replace, reverse above procedures.



#### **ENGINE**

Manintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any nonroad engine repair estyablishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

#### TO ADJUST THROTTLE CONTROL



#### CABLE

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

 With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast position. Check that holes "A" in governor control lever and hole in governor plate lineup. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

#### TO ADJUST CARBURETOR

NOTE: The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

**IMPORTANT:** Damage to the needle valve and the seat in carburetor may result if screw is turned in too tight.

#### PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).

#### FINAL SETTING

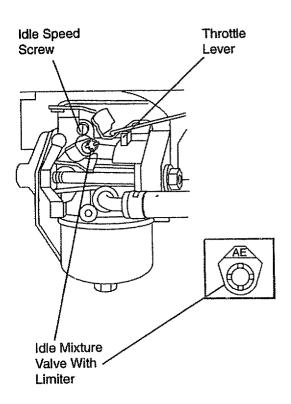
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Move throttle control lever to slow position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture valve full travel clockwise then counterclockwise until engine runs rough. Turn valve to a point midway between those two positions. Release throttle lever.

#### **ACCELERATION TEST -**

 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle mixture valve out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust - damage may result.

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center/department, which has proper equipment and experience to make any necessary adjustments.



#### STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.

ACAUTION: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

#### TRACTOR

Remove mower from tractor for winter storage. This will allow you to clean it thoroughly. Remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Maintenance section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

#### BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

#### ENGINE

#### **FUEL SYSTEM**

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel filter, fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

#### TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Engine clicks but will not start (cont'd)	<ul><li>Loose or damaged wiring.</li><li>Faulty solenoid or starter.</li></ul>	<ul><li>Check all wiring.</li><li>Check/replace solenoid or starter.</li></ul>
Loss of power	<ul> <li>Cutting too much grass/too fast.</li> <li>Throttle in "CHOKE" position.</li> <li>Build-up of grass, leaves and trash under mower.</li> <li>Dirty air filter.</li> <li>Low oil level/dirty oil.</li> <li>Faulty spark plug.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Water in fuel.</li> <li>Spark plug wire loose.</li> <li>Dirty engine air screen/fins.</li> <li>Dirty/clogged muffler.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ul>	<ul> <li>Set in "Higher Cut" position/reduce speed.</li> <li>Adjust throttle control.</li> <li>Clean underside of mower housing.</li> <li>Clean/replace air filter.</li> <li>Check oil level/change oil.</li> <li>Clean and regap or change spark plug.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Connect and tighten spark plug wire.</li> <li>Clean engine air screen/fins.</li> <li>Clean/replace muffler.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service and Adjustments section.</li> <li>Contact an authorized service center.</li> </ul>
Excessive vibration	<ul> <li>Worn, bent or loose blade.</li> <li>Bent blade mandrel.</li> <li>Loose/damaged part(s).</li> </ul>	<ul> <li>Replace blade. Tighten blade bolt.</li> <li>Replace blade mandrel.</li> <li>Tighten loose part(s).</li> <li>Replace damaged parts.</li> </ul>
Engine continues to run when opera- tor leaves seat with attachment clutch engaged	<ul> <li>Faulty operator-safety presence control system.</li> </ul>	Check wiring, switches and connections. If not corrected, contact an authorized service center.
Poor cut - uneven	<ul> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of</li> </ul>	<ul> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ul>

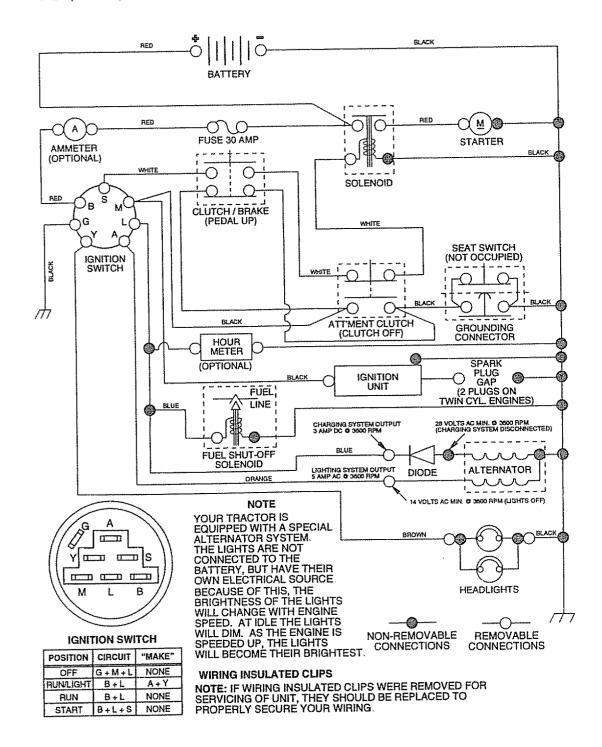
#### TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Poor cut - uneven (cont'd)	grass, leaves, and trash around mandrels.	
Mower blades will not rotate	<ul> <li>Obstruction in clutch mechanism.</li> <li>Worn/damaged mower drive belt.</li> <li>Frozen idler pulley.</li> <li>Frozen blade mandrel.</li> </ul>	<ul> <li>Remove obstruction.</li> <li>Replace mower drive belt.</li> <li>Replace idler pulley.</li> <li>Replace blade mandrel.</li> </ul>
Poor grass dis- charge	<ul> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt worn.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ul>	<ul> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace/sharpen blade. Tighten blade bolt.</li> <li>Clean underside of mower housing.</li> <li>Replace mower drive belt.</li> <li>Reinstall blades sharp edge down.</li> <li>Replace with blades listed in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ul>
Headlight(s) not working (if so equipped)	<ul> <li>Switch is "OFF".</li> <li>Bulb(s) burned out.</li> <li>Faulty light switch.</li> <li>Loose or damaged wiring.</li> <li>Blown fuse.</li> </ul>	<ul> <li>Turn switch "ON".</li> <li>Replace bulb(s).</li> <li>Check/replace light switch.</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ul>
Battery will not charge	<ul> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ul>	<ul> <li>Replace battery.</li> <li>Check/clean all connections.</li> <li>Replace regulator.</li> <li>Replace alternator.</li> </ul>
Engine "backfires" when turning engine "OFF"	<ul> <li>Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ul>	Move throttle control to     "SLOW" position and allow     to idle for 30 seconds before     stopping engine.

#### TRACTOR - - MODEL NUMBER 917.270641

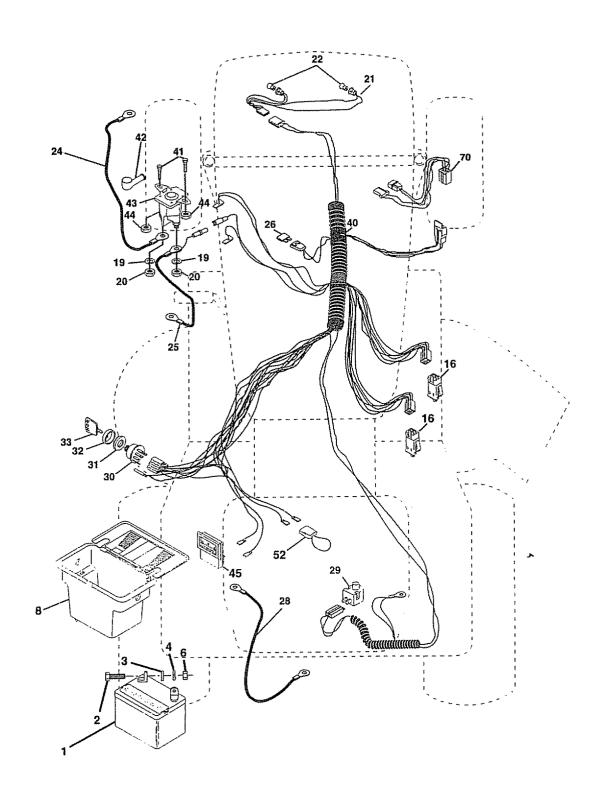
#### SCHEMATIC

01926 - (WH#156442)



### TRACTOR - - MODEL NUMBER 917.270641

#### ELECTRICAL



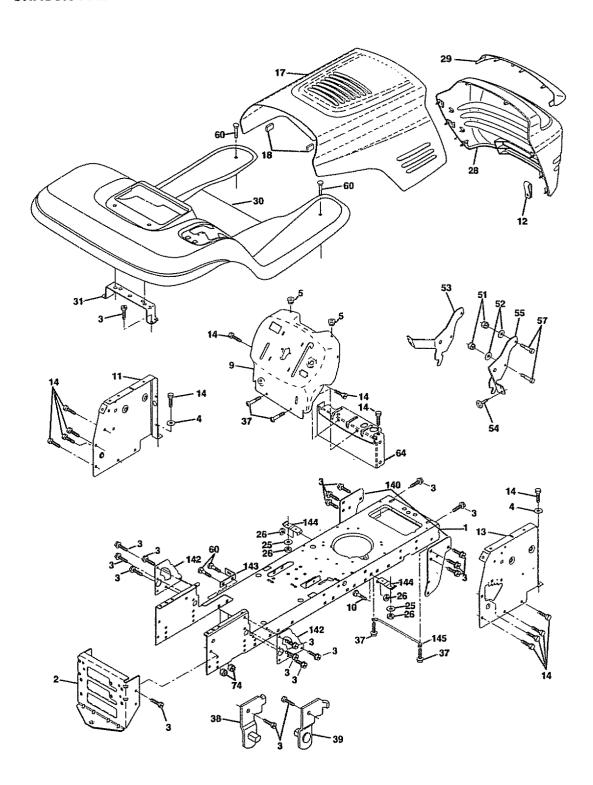
### TRACTOR - - MODEL NUMBER 917.270641

#### ELECTRICAL

KEY NO.	PART	DESCRIPTION
1	144925	Battery 12 VOLT 25 AMP
	74760412	Bolt Hex Hd 1/4-20unc x 3/4
3	STD551025	Washer 9/32 x 5/8 x 16 Ga
4	STD551125	Washer Lock Hvy Helical 1/4
6	STD541025	Nut Fin Hex 1/4-20 Unc
8	156417	Case Battery
16	153664	Switch, Interlock Push-In
19		Washer Lock 1/4
	73350400	Nut Jam Hex 1/4-20 Unc
21		Hamess Asm Light W/4152j
22		Bulb Light #1156
24	4799J	Cable Battery 6 Ga 11" red
25	146147	Cable Battery 6 Ga w/16 wire red
26	108824X	Fuse 30 AMP Auto Green
28	4207J	Cable Ground 6 Ga 12" black
29	121305X	Switch Plunger Nc Gray
30	140301	Switch Ign 4 Pos
31	124211X	Nut Ignition
32	141226	Cover Sw Key Blk 1 25 Text SLT
33	109310X	Key Ign Molded Craftsman
40	156442	Hamess Ign Man Cl Am Hm 97
41	71110408	Bolt Blk. Fin Hex 1/4-20 Unc x 1/2
42	131563	Cover Terminal Red
43	145673	Solenoid
44	73640400	Nut Keps Blk Hex 1/4-20 Unc
45	121433X	Ammeter Rectangular 6 Amp
52	141940	Protection Wire Loop
70	140422	Hamess Engine B&S 14 OHV

NOTE: All component dimensions given in U.S. inches 1 inch =  $25.4 \ \text{mm}$ 

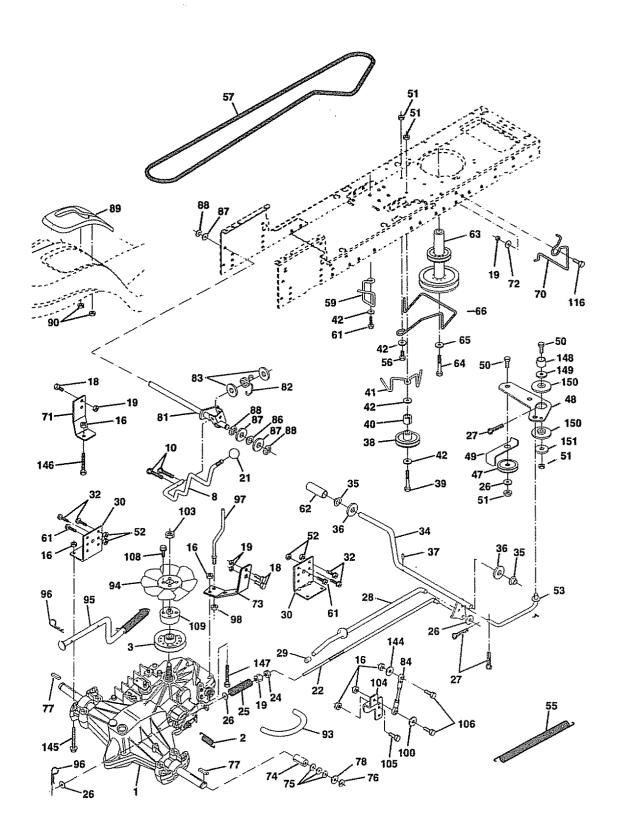
# TRACTOR - - MODEL NUMBER 917.270641 CHASSIS AND ENCLOSURES



# TRACTOR - - MODEL NUMBER 917.270641 CHASSIS AND ENCLOSURES

KEY	PART	
NO.	NO.	DESCRIPTION
1	160392	Chassis Assembly
2	140356	Drawbar
3	17490612	Screw, Thd. Roll. 3/8-16 x 3/4
4	19131216	Washer 13/32 x 3/4 x 16 Gauge
5	155272	Bumper Hood/Dash
9	161917X013	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 3/4
11	155927	Panel, Dash, L.H.
12	145660	Clip Tinnerman Grille P/L
13	155934	Panel, Dash, R.H.
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	144983X558	Hood Assembly
18	126938X	Bumper Hood
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Nut
28	145198X558	Grille w/Clips MS-558
29	155217	Lens, Grille
30	151287X558	Fend/Ftrest Pnt STLT N HLD 558
31	139976	Bracket, Fender Support
37	17490508	Screw Thdrol 5/16-18 x 1/2
38	139886	Pivot Bracket Assembly, L.H.
39	139887	Pivot Bracket Assembly, R.H.
51	73800400	Nut Lock w/Insert 1/4-20 UNC
52	19091416	Washer 9/32 x 7/8 x 16 Ga
53	145201	Bracket Grille Pickoff LH
54	161464	Screw Hex Wshd 8-18 x 7/8
55	145202	Bracket Grille Pickoff RH
57	STD522507	Bolt, Fin Hex 1/4-20 UNC x 75
60	72140606	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	154798	Dash Lower STLT
74	STD541437	Nut Crownlock 3/8016 UNC
140	158418	Bracket Suspension Front
142	156095	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	154207	Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
	5479J	Plug, Button

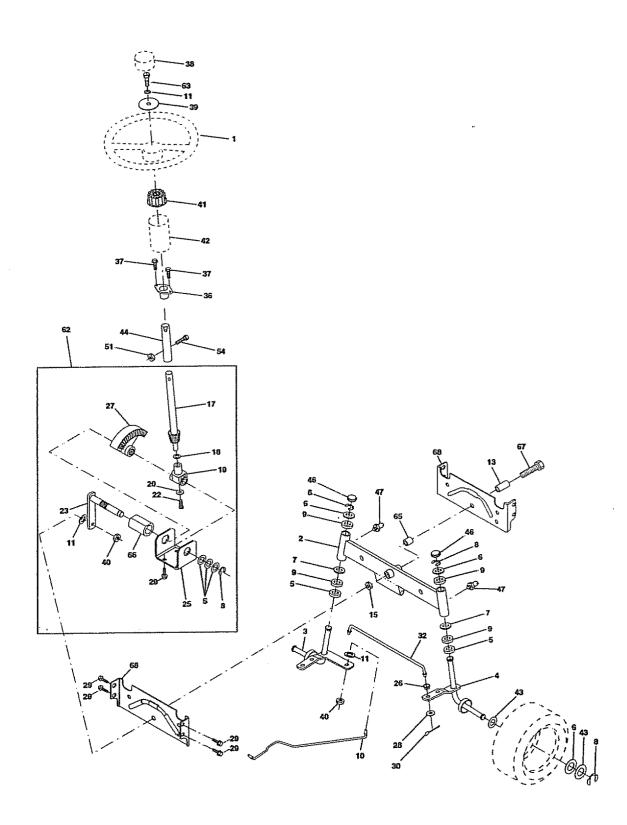
#### **GROUND DRIVE**



### **GROUND DRIVE**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140607	Transmission, Asm.	69	142432	Screw
2	142431	Spring, Return, Brake	70	134683	Guide, Belt, Mower Drive RH
3	144698	Pulley, Transmission	71	141417	Strap, Torque, Lh
8	154792	Rod, Shift	72	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
10	76020416	Pin, Cotter 1/8 x 1	73	141418	Strap, Torque, Rh
16	73800500	Nut, Lock Hex w/lns 5/16-18	74	121199X	Spacer, Split
		UNC	75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
18	74780616	Bolt Hex 3/8-16 UNC x 1 Gr.5	76	12000001	Ring, E
19	73800600	Nut, Lock Hex w/Wsh 3/8-16	77	123583X	Key, Square
		UNC	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
21	106933X	Knob Rd. 1/2-13 Plstc. Thds.	81	161081	Asm, Shaft
		Blk.	82	123782X	Spring, Torsion
22	145627	Rod, Brake	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
24	73350600	Nut	84	141423	Rod, Tie
25	106888X	Spring, Rod, Brake	86	157480	Bushing
26	19131316	Washer 13/32 x 13/16 x 16 Ga.	87	19212016	Washer 21/32 x 1-1/4 x 16 Ga.
27	76020412	Pin, Cotter 1/8 x 3/4	88	12000008	Ring, Clip
28	145204	Rod, Parking Brake	89	158388	Console, Shift
29	124236X	Cap, Parking Brake	90	124346X	Nut Self-Thd Wshd 1/4
30	130807	Bracket, Transmission	93	142564	Line Fuel
32	74760512	Bolt Hex 5/16-18 UNC x 3/4 Shaft, Foot Pedal	94	140462	Fan 7"
34	155071	Bearing, Nylon	95	144643	Control Asm Bypass Hydro
35	120183X 19211616	Washer	96	4497H	Spring, Retainer 1"
36	1572H	Pin, Roll	97	144201	Keeper, Belt Rh
37 38	123674X	Pulley, Idler, Flat	98	73510600	Nut Keps 3/8-16 UNC
39	74760644	Bolt	100	19111216	Washer 11/32 x 3/4 x 16 Ga.
40	4470J	Spacer, Split	103	73940800	Nut, Hex Jam Toplock 1/2-20 UNF
41	154777	Keeper, Belt, Idler	104	141421	Arm, Control Pump 500 Hydro
42	19131312	Washer 13/32 x 13/16 x 12 Ga.	105	71070516	Bolt, Head Hex 5/16 x 18 x 1
47	127783	Pulley, Idler, V-Belt	105	74780520	Bolt H 5/16-18 UNC x 1-1/4
48	154407	Bellcrank Clutch Gmd Drustl	108	17541026	Screw Hex Wh Hd #10-24 x 1-
49	123205X	Retainer, Belt	100	17541020	5/8
50	74760624	Bolt	109	145098	Adaptor Fan Hydro Lt Hyd Alum
51	73680600	Nut	116	72110610	Bolt Rdhd Sq Neck 3/8-16 x 1-
52	73680500	Nut Crownlock 5/16-28			1/4
53	105710X	Link, Clutch	144	19111016	Washer 11/32 x 5/8 x 16
55	105709X	Spring, Return, Clutch	145	74490540	Bolt Hex Flghd 5/16-18 Gr. 5
56	74760620	Bolt, Hex 3/8-16 UNC x 1-1/4	146	74490536	Bolt Hex 5/16-18 x 2-1/4
57	161850	V-Belt, Drive	147	74490524	Bolt Hex 5/16-18 UNC x 1-1/2
59	140312	Keeper, Belt, Center	148	159103	Spacer
61	17490612	Screw, Thdrol 3/8-16 x 3/4	149	122052X	Spacer Retainer
		Type TT	150	150935	Bushing Nylon Collered
62	8883R	Cover, Pedal	151	19133210	Washer 13/32 x 2 x 10
63	161399	Pulley, Engine			
64	71170764	Bolt Hex 7/16 x 4 Gr. 5	NOTE	E: Ali component	dimensions given in U.S. inches
65	10040700	Washer	1	inch = 25.4 mm	
66	161488	Keeper, Belt Engine Hydro			

# TRACTOR - - MODEL NUMBER 917.270641 STEERING ASSEMBLY

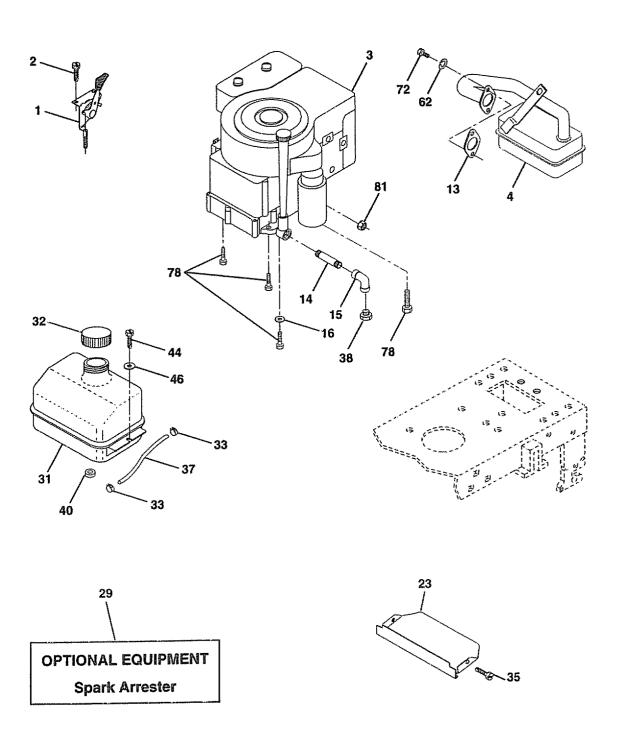


### TRACTOR - - MODEL NUMBER 917.270641 STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	139768	Steering Wheel
2	154427	Axle Assembly STMP Dropped STL
3	156483	Spindle Assembly, L.H.
4	157473	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366R	Bearing, Steering Column
10	156438	Draglink Extended Stamped
11	STD551137	Washer, Lock
13	154779	Bearing Axle STLT/GT
15	73901000	Nut, Lock, Flange 5/8-11 UNC
17	156546	Shaft Assembly, Steering
18	57079	Washer, Thrust .515 x .750 x .033
19	124035X	Support, Shaft
20	126684X	Washer, Shim 1/4 x 5/8 x .062
22	71200410	Screw, Hex Socket 1/4-20 x 5/8
23	127501	Pittman Shaft Assembly
25	154406	Bracket, Steering
26	126847X	Bushing, Link, Drag
27	136874	Gear, Sector
28	19131416	Washer 13/32 x 7/8 x 16 Gauge
29	17490612	Screw, Thd., Roll. 3/8-16 x 3/4
30	STD561210	Pin ·
32	130465	Rod, Tie
36	155099	Bushing, Steering
37	152927	Screw
38	139769	Insert, Steering Wheel
39	19133808	Washer 13/32 x 2-3/8 x 8 Gauge
40	STD541537	Gripco Nut
41 42	100711L	Adaptor, Steering Wheel
42 43	145054	Boot, Steering Shaft
43	121749X 153720	Washer 25/32 x 1-1/4 x 16 Gauge
44 46	121232X	Extension Shaft Steering LRLT
40 47	6855M	Cap, Spindle Fitting, Grease
47 51	STD541431	Nut Lock Hex w/lns. 5/16-18 UNC
54	74780520	Bolt Fin Hex 5/16-18 UNC x 1-1/4
62	156594	Kit Steering Asm Service
63	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr 5
65	154780	Spacer Axie
66	154404	Bearing Arm Pittman
67	74781044	Bolt, Fin Hex 5/8-11 UNC x 2-3/4
68	154429	Axle, Brace
00	IUTTEJ	Axie, Diace

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

### ENGINE

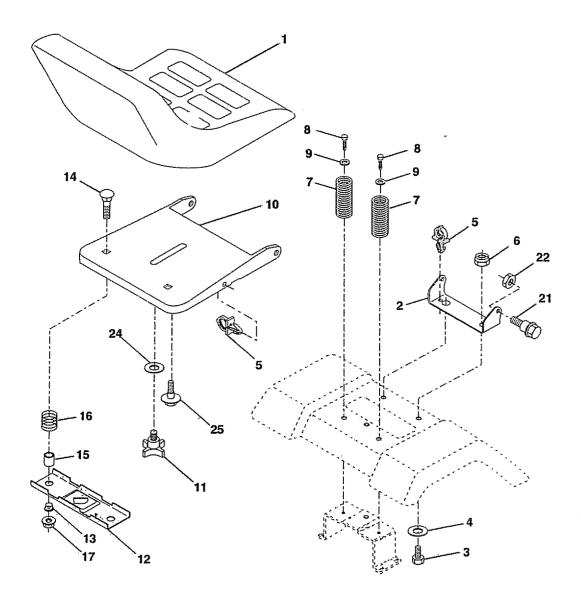


#### **ENGINE**

KEY NO.		DESCRIPTION
1	162157	Control Throt /Ch Lh
2	17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3		Engine (See Breakdown) B&S Model 28U707-1174-E1
4	137352	Muffler Exhaust B&S Lt
13	272293	Gasket 1 313 ld Tin Plated
14	13280324	Nipple Pipe 3/8 Npt X 3*
15	13200300	Elbow Std 90 Degree 3/8-18 Npt
16	STD551237	Washer Lock Ext Tooth 3/8
23	159880	Shield Browning/Debris Guard
29	137180	Arrestor Spark
31	109202X	Tank Fuel 1 25 Fr
32	158990	Cap Asm Fuel Sears Vented
33	123487X	Clamp Hose Blk
35	17490512	Screw, Thdrol 5/16-18 x 3/4 Tyt
37	137040	Line Fuel 20*
38		Plug Oil Drain (Order From Engine Manufacturer)
40	124028X	Bushing Snap Nyl Blk Fuel Line
44	17490412	Screw Hexwsh Thdrol 1/4-20x3/4
46	19091416	Washer 9/32 X 7/8 X 16ga
62	STD551131	Washer Lock Hvy Hicl Spr 5/16
72	71070512	Screw Hexhd Cap 5/16-18x3/4
78	17490620	Screw Thdrol 3/8-16x1-1/4 Tytt
81	128861	Nut Flange 1/4-20 Starter Nut

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

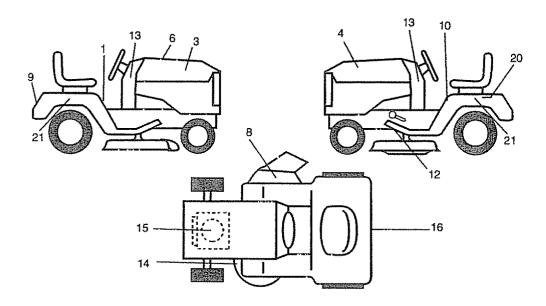
### **SEAT ASSEMBLY**



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	140122	Seat 3350 Blk/blk Craftsman	12	121246X	Bracket Pnt Mounting Switch
2	140551	Bracket Pnt Pivot Seat (blk )	13	121248X	Bushing Snap Blk Nyl 50 Id
3	STD523710	Bolt Fin Hex 3/8-16unc X 1	14	72050412	Bolt Rdhd Sht Nk 1/4-20x1-1/2
4	19131610	Washer 13/32 X 3/4 X 10 Ga	15	134300	Spacer Split 28 X 96 Zinc
5	145006	Clip Push In Hinged	16	121250X	Spring Cprsn 1 27 Blk Pnt
6	STD541437	Nut Hex Lock w/lns 3/8-16 Unc	17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi	21	153236	Bolt Shoulder 5/16-18 Unc-2A
8	17490616	Screw Thdrol 3/8-16 X 1 Ty-tt	22	STD541431	Nut Hex Lock w/Ins 5/16-18
9	19131614	Washer 13/32 X 1 X 14 Ga	24	19171912	Washer 17/32 X 1-3/16 X 12 Ga.
10	155925	Pan Pnt Seat (blk )	25	127018X	Bolt Shoulder 5/16-18 X 62
11	120068X	Knob Seat 1/2-13 Unc Blk	NOTE:	All component	dimensions given in U.S. inch-

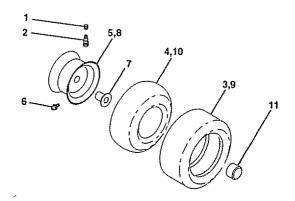
NOTE: All component dimensions given in U.S. inches1 inch = 25.4 mm

### **DECALS**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	156811	Decal, Oper. Instr.	15	273832	Decal, Engine B&S 16hp
3	163200	Decal, Hood, R.H.	16	142341	Decal, Drawbar Control
4	163202	Decal, Hood, L.H.			Movement Hyd LT
6	133644	Decal, Customer Maintenance	20	149516	Decal Battery Dngr/Psn Eng
8	163203	Decal, Deck Mower EZ	21	163205	Decal, Fender Sd. Wht
9	163204	Decal, Fender, Craftsman	* *	138311	Decal, Lift Handle
10	156439	Decal, Fender Danger		154515	Pad Footrest LH STLT
12	146046	Decal, V-Belt Drive Schematic		154516	Pad Footrest RH STLT
13	163252	Decal, Dash Panel B&S		164138	Owner's Manual, English
14	160396	Decal, V-Belt Schematic		164139	Owner's Manual, Spanish

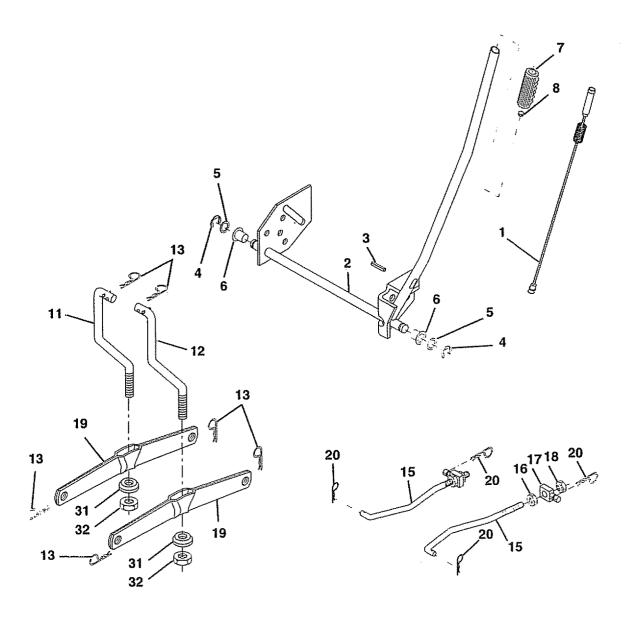
#### **WHEELS & TIRES**



KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Cap Value Tire
2	65139	Stem Value
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Inner Front #35060
5	106732X427	Rim Asm 6"front White Service
6	278H	Fitting Grease
7	9040H	Bearing Flange
8	106108X427	Rim Asm 8"rear White Service
9	106268X	Tire R Ts 18x9 5-8 Service
10	7152J	Tube Rear 9 5 X 8 Service
11	104757X	Cap Axle Blk 1 50 X 1 00
	144334	Sealant, Tire (10 oz. tube)

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

#### LIFT ASSEMBLY

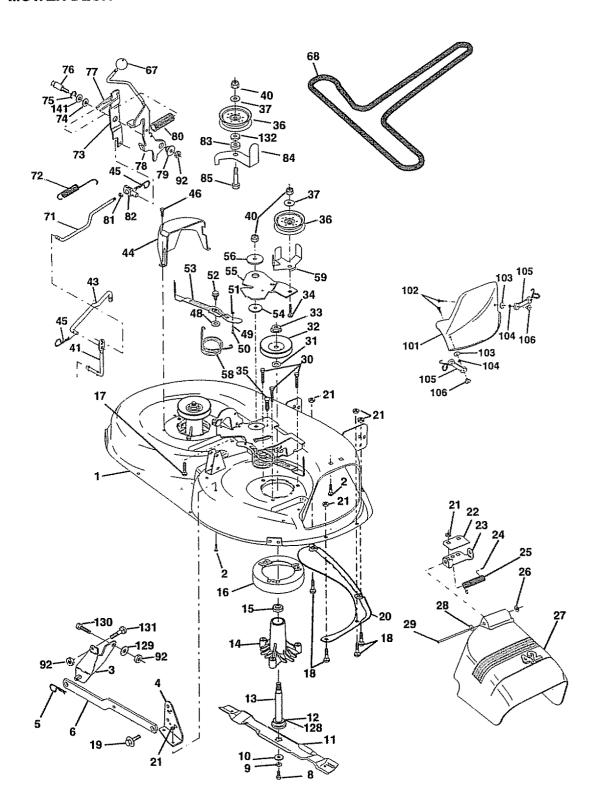


#### LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	159460	Washer Asm Inner Spring W/Plunger
2	159471	Shaft Asm. Lift
3	105767X	Pin Groove
4	12000002	E Ring #5133-62
5	19211621	Washer 21/32 x 1 x 21 Ga.
6	120183X	Bearing Nylong
7	125631X	Grip Handle Fluted
8	122365X	Button Plunger Read
11	139865	Link Asm Lift L.H.
12	139866	Link Asm Lift R.H.
13	4939M	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73680800	Nut Crownlock 1/2-13 Unc
19	139868	Arm Suspension Mower
20	163552	Retainer Spring
31	140302	Bearing, Pvt Lift Spherical
32	73540600	Nut Crownlock 3/8-24

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

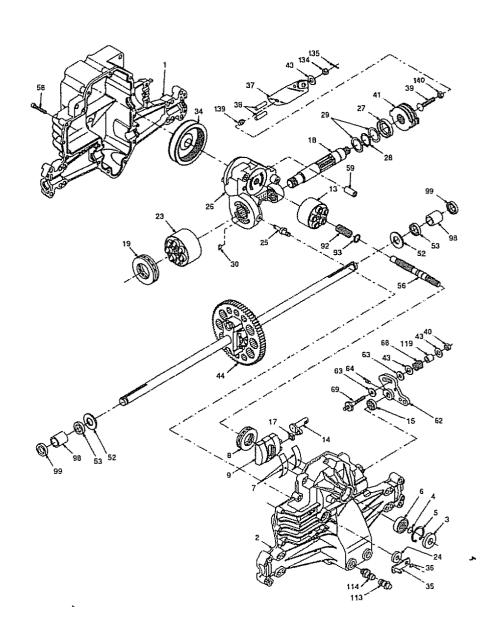
#### **MOWER DECK**



#### MOWER DECK

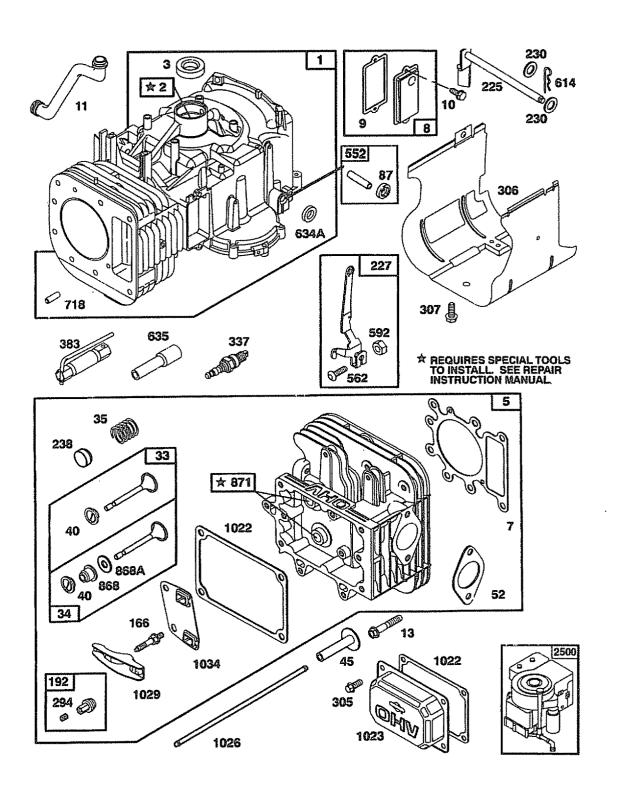
1	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
3   138017   Bracket Assembly,Sway Bar, Front   54   133943   Washer, Hardened	1	144393	Mower Housing	51	STD541410	
Front	2	STD533107	Bolt			
4         138440         Bracket Assembly, Sway Bar         55         155046         Arm, Idler           5         STD624008         Retainer Spring         56         122052X         Spacer, Retainer           6         130832         Arm, Suspension, Rear         58         140086         Spring, Torsion Brakes           8         850857         Bolt, Hex 3/8-24 x 1.25 Grade         59         141043         Guard, TUV Idler           9         STD551137         Washer, Lock         68         144200         V-Belt           10         140296         Washer, Hardened         71         142427         Rod, Clutch, Primary, with Nibs           11         134149         Blade, Mulching         72         131870         Spring, Return           12         129895         Bearing, Ball         73         127847         Arm, Clutch, Secondary           13         137645         Shaft Assembly, Mandrel, Vented         76         128903         Bolt, Shoulder 5/8 x 16           14         128774         Housing, Mandrel, Vented         76         128903         Bolt, Shoulder 3/8-16 UNC x           15         110485X         Bearing, Ball, Mandrel         77         127845         Keeper, Spring           17         72	3	138017				
6         130832         Arm, Suspension, Rear         58         140086         Spring, Torsion Brakes           8         850857         Bolt, Hex 3/8-24 x 1.25 Grade         59         141043         Guard, TUV Idler           9         STD551137         Washer, Lock         68         144200         V-Belt           10         140296         Washer, Hardened         71         142427         Rod, Clutch, Primary, with Nibs           11         134149         Blade, Mulching         72         131870         Spring, Return           12         129895         Bearing, Ball         73         127847         Arm, Clutch, Secondary           13         137645         Shaft Assembly, Mandrel, Vented         74         121748X         Washer 25/32 x 1-5/8 x 16 Gauge           6)         Yented (Includes Key Number 6)         75         12000029         Ring, Klip           14         128774         Housing, Mandrel, Vented         76         128903         Bolt, Shoulder 3/8-16 UNC x 144           16         140329         Stripper, Vented Mower Deck         77         127845         Keeper, Spring           17         72110610         Bolt, Carriage 3/8-16 x 1-1/4         78         160570         Lever Asm. Clutch Pri Plm	4	138440	Bracket Assembly, Sway Bar			
6         130832         Arm, Suspension, Rear         58         140086         Spring, Torsion Brakes           8         850857         Bolt, Hex 3/8-24 x 1.25 Grade         59         141043         Guard, TUV Idler           9         STD551137         Washer, Lock         68         144200         V-Belt           10         140296         Washer, Hardened         71         142427         Rod, Clutch, Primary, with Nibs           11         134149         Blade, Mulching         72         131870         Spring, Return           12         129895         Bearing, Ball         73         127847         Arm, Clutch, Secondary           13         137645         Shaft Assembly, Mandrel, Vented         74         121748X         Washer 25/32 x 1-5/8 x 16 Gauge           6)         Yented (Includes Key Number 6)         75         12000029         Ring, Klip           14         128774         Housing, Mandrel, Vented         76         128903         Bolt, Shoulder 3/8-16 UNC x 1.44           16         140329         Stripper, Vented Mower Deck         77         127845         Keeper, Spring           17         72110610         Bolt, Carriage 3/8-16 x 1-1/4         78         160570         Lever Asm. Clutch Pri Plm <td< td=""><td></td><td>STD624008</td><td>Retainer Spring</td><td></td><td></td><td></td></td<>		STD624008	Retainer Spring			
STD551137   Washer, Lock   68   144200   V-Belt		130832	Arm, Suspension, Rear	58	140086	
9 STD551137 Washer, Lock 10 140296 Washer, Hardened 71 142427 Rod, Clutch, Primary, with Nibs 11 134149 Blade, Mulching 72 131870 Spring, Return 12 129895 Bearing, Ball 73 127847 Arm, Clutch, Secondary 13 137645 Shaft Assembly, Mandrel, Vented (Includes Key Number 6) 75 12000029 Ring, Klip 14 128774 Housing, Mandrel Vented 76 128903 Bolt, Shoulder 3/8-16 UNC x 15 110485X Bearing, Ball, Mandrel 16 140329 Stripper, Vented Mower Deck 77 127845 Keeper, Spring 17 72110610 Bolt, Carriage 3/8-16 x 1-1/4 78 160570 Lever Asm. Clutch Pri Plm 18 72140505 Bolt, Carriage 5/16-18 x 5/8 STLT 19 132827 Bolt, Shoulder 79 127498 Bushing, Large, Brass 20 159770 Baffle, Vortex 80 153701 Spring, Mower Clutch 21 STD541431 Nut Crownlock 5/16-18 UNC 81 73350600 Nut, Hex Jam 3/8-16 Unc 22 134753 Stiffener Bracket 82 142028 Trunnion, Adj. 23 131267 Bracket, Deflector 83 120958X Washer Sintered 24 105304X Cap, Sleeve 84 156084 Keeper Belt Idler 25 123713X Spring, Torsion, Deflector 85 72140618 Bolt Carriage 3/8-16 x 2-1/4 26 110452X Nut, Push 92 STD541437 Nut 27 130968 Shield, Deflector 101 136420 Mulcher Cover 28 19111016 Washer 11/32 x 5/8 x 16 Gauge 104 STD551110 Washer, Lock	8	850857	Bolt, Hex 3/8-24 x 1.25 Grade	59	141043	Guard, TUV Idler
10				67	162113	Knob Custom Oval
11			•	68	144200	
12 129895 Bearing, Ball 73 127847 Arm, Clutch, Secondary 13 137645 Shaft Assembly, Mandrel, Vented (Includes Key Number 6) 75 12000029 Ring, Klip 14 128774 Housing, Mandrel, Vented 76 128903 Bolt, Shoulder 3/8-16 UNC x 15 110485X Bearing, Ball, Mandrel 140329 Stripper, Vented Mower Deck 77 127845 Keeper, Spring 17 72110610 Bolt, Carriage 3/8-16 x 1-1/4 78 160570 Lever Asm. Clutch Pri Plm 8 72140505 Bolt, Shoulder 79 127498 Bushing, Large, Brass 19 132827 Bolt, Shoulder 79 127498 Bushing, Large, Brass 20 159770 Baffle, Vortex 80 153701 Spring, Mower Clutch 1570541431 Nut Crownlock 5/16-18 UNC 81 73350600 Nut, Hex Jam 3/8-16 Unc 134753 Stiffener Bracket 82 142028 Trunnion, Adj. 15304X Cap, Sleeve 84 156084 Keeper Belt Idler 15304X Spring, Torsion, Deflector 85 72140618 Bolt Carriage 3/8-16 x 2-1/4 10452X Nut, Push 92 STD541437 Nut 136420 Mulcher Cover 19111016 Washer 11/32 x 5/8 x 16 102 71161010 Screw 131491 Rod, Hinge 104 STD551110 Washer, Lock				71	142427	
13   137645   Shaft Assembly, Mandrel, Vented (Includes Key Number 6)   74   121748X   Washer 25/32 x 1-5/8 x 16   Gauge 6)   75   12000029   Ring, Klip   Ring				72	131870	Spring, Retum
Vented (Includes Key Number 6) 75 12000029 Ring, Klip 14 128774 Housing, Mandrel, Vented 76 128903 Bolt, Shoulder 3/8-16 UNC x 15 110485X Bearing, Ball, Mandrel 16 140329 Stripper, Vented Mower Deck 77 127845 Keeper, Spring 17 72110610 Bolt, Carriage 3/8-16 x 1-1/4 78 160570 Lever Asm. Clutch Pri Plm 18 72140505 Bolt, Carriage 5/16-18 x 5/8 19 132827 Bolt, Shoulder 79 127498 Bushing, Large, Brass 20 159770 Baffle, Vortex 80 153701 Spring, Mower Clutch 21 STD541431 Nut Crownlock 5/16-18 UNC 81 73350600 Nut, Hex Jam 3/8-16 Unc 22 134753 Stiffener Bracket 82 142028 Trunnion, Adj. 23 131267 Bracket, Deflector 83 120958X Washer Sintered 24 105304X Cap, Sleeve 84 156084 Keeper Belt Idler 25 123713X Spring, Torsion, Deflector 85 72140618 Bolt Carriage 3/8-16 x 2-1/4 26 110452X Nut, Push 92 STD541437 Nut 27 130968 Shield, Deflector 101 136420 Mulcher Cover 28 19111016 Washer 11/32 x 5/8 x 16 102 71161010 Screw Gauge 103 19061216 Washer, Lock				73	127847	
14         128774         Housing, Mandrel, Vented         76         128903         Bolt, Shoulder 3/8-16 UNC x 1.44           15         110485X         Bearing, Ball, Mandrel         76         128903         Bolt, Shoulder 3/8-16 UNC x 1.44           16         140329         Stripper, Vented Mower Deck         77         127845         Keeper, Spring           17         72110610         Bolt, Carriage 3/8-16 x 1-1/4         78         160570         Lever Asm. Clutch Pri Plm           18         72140505         Bolt, Shoulder         79         127498         Bushing, Large, Brass           20         159770         Baffle, Vortex         80         153701         Spring, Mower Clutch           21         STD541431         Nut Crownlock 5/16-18 UNC         81         73350600         Nut, Hex Jam. 3/8-16 Unc           22         134753         Stiffener Bracket         82         142028         Trunnion, Adj.           23         131267         Bracket, Deflector         83         120958X         Washer Sintered           24         105304X         Cap, Sleeve         84         156084         Keeper Belt Idler           25         123713X         Spring, Torsion, Deflector         85         72140618         Bolt Carriage 3/8-16 x 2-1/4 <td>13</td> <td>137645</td> <td>Vented (Includes Key Number</td> <td>74</td> <td>121748X</td> <td></td>	13	137645	Vented (Includes Key Number	74	121748X	
15       110485X       Bearing, Ball, Mandrel       1 44         16       140329       Stripper, Vented Mower Deck       77       127845       Keeper, Spring         17       72110610       Bolt, Carriage 3/8-16 x 1-1/4       78       160570       Lever Asm. Clutch Pri Plm         18       72140505       Bolt, Carriage 5/16-18 x 5/8       TLT         19       132827       Bolt, Shoulder       79       127498       Bushing, Large, Brass         20       159770       Baffle, Vortex       80       153701       Spring, Mower Clutch         21       STD541431       Nut Crownlock 5/16-18 UNC       81       73350600       Nut, Hex Jam. 3/8-16 Unc         22       134753       Stiffener Bracket       82       142028       Trunnion, Adj.         23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101				75	12000029	
16         140329         Stripper, Vented Mower Deck         77         127845         Keeper, Spring           17         72110610         Bolt, Carriage 3/8-16 x 1-1/4         78         160570         Lever Asm. Clutch Pri Plm           18         72140505         Bolt, Carriage 5/16-18 x 5/8         TSTLT           19         132827         Bolt, Shoulder         79         127498         Bushing, Large, Brass           20         159770         Baffle, Vortex         80         153701         Spring, Mower Clutch           21         STD541431         Nut Crownlock 5/16-18 UNC         81         73350600         Nut, Hex Jam. 3/8-16 Unc           22         134753         Stiffener Bracket         82         142028         Trunnion, Adj.           23         131267         Bracket, Deflector         83         120958X         Washer Sintered           24         105304X         Cap, Sleeve         84         156084         Keeper Belt Idler           25         123713X         Spring, Torsion, Deflector         85         72140618         Bolt Carriage 3/8-16 x 2-1/4           26         110452X         Nut, Push         92         STD541437         Nut           27         130968         Shield, Deflector				76	128903	
17       72110610       Bolt, Carriage 3/8-16 x 1-1/4       78       160570       Lever Asm. Clutch Pri Plm         18       72140505       Bolt, Carriage 5/16-18 x 5/8       TSTLT         19       132827       Bolt, Shoulder       79       127498       Bushing, Large, Brass         20       159770       Baffle, Vortex       80       153701       Spring, Mower Clutch         21       STD541431       Nut Crownlock 5/16-18 UNC       81       73350600       Nut, Hex Jam 3/8-16 Unc         22       134753       Stiffener Bracket       82       142028       Trunnion, Adj.         23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         29       131491 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
18       72140505       Bolt, Carriage 5/16-18 x 5/8       STLT         19       132827       Bolt, Shoulder       79       127498       Bushing, Large, Brass         20       159770       Baffle, Vortex       80       153701       Spring, Mower Clutch         21       STD541431       Nut Crownlock 5/16-18 UNC       81       73350600       Nut, Hex Jam 3/8-16 Unc         22       134753       Stiffener Bracket       82       142028       Trunnion, Adj.         23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer,						
19       132827       Bolt, Shoulder       79       127498       Bushing, Large, Brass         20       159770       Baffle, Vortex       80       153701       Spring, Mower Clutch         21       STD541431       Nut Crownlock 5/16-18 UNC       81       73350600       Nut, Hex Jam 3/8-16 Unc         22       134753       Stiffener Bracket       82       142028       Trunnion, Adj.         23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock				78	160570	
20       159770       Baffle, Vortex       80       153701       Spring, Mower Clutch         21       STD541431       Nut Crownlock 5/16-18 UNC       81       73350600       Nut, Hex Jam 3/8-16 Unc         22       134753       Stiffener Bracket       82       142028       Trunnion, Adj.         23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         29       131491       Rod, Hinge       104       STD551110       Washer, Lock				70	107400	
21       STD541431       Nut Crownlock 5/16-18 UNC       81       73350600       Nut, Hex Jam 3/8-16 Unc         22       134753       Stiffener Bracket       82       142028       Trunnion, Adj.         23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock			•			
22       134753       Stiffener Bracket       82       142028       Trunnion, Adj.         23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock						
23       131267       Bracket, Deflector       83       120958X       Washer Sintered         24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock						
24       105304X       Cap, Sleeve       84       156084       Keeper Belt Idler         25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock						
25       123713X       Spring, Torsion, Deflector       85       72140618       Bolt Carriage 3/8-16 x 2-1/4         26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock						
26       110452X       Nut, Push       92       STD541437       Nut         27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock						
27       130968       Shield, Deflector       101       136420       Mulcher Cover         28       19111016       Washer 11/32 x 5/8 x 16       102       71161010       Screw         Gauge       103       19061216       Washer #10         29       131491       Rod, Hinge       104       STD551110       Washer, Lock						_
28 19111016 Washer 11/32 x 5/8 x 16 102 71161010 Screw Gauge 103 19061216 Washer #10 29 131491 Rod, Hinge 104 STD551110 Washer, Lock						
Gauge 103 19061216 Washer #10 29 131491 Rod, Hinge 104 STD551110 Washer, Lock						
29 131491 Rod, Hinge 104 STD551110 Washer, Lock		,5				
· · · · · · · · · · · · · · · · · · ·	29	131491				
	30	157722	Screw Thdrol Washer Head			
31 129963 Washer, Spacer 106 2029J Nut, Weld	31	129963	Washer, Spacer			
32 153535 Pulley, Mandrel 128 153390 Washer Felt	32	153535	Pulley, Mandrel			
	33	137266	Nut, Toplock, Flanged	129		Washer 13/32 x 13/16 x 12 Ga.
34 STD533717 Bolt 130 STD523710 Bolt, Fin Hex 3/8-16 UNC x 1	34	STD533717		130	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1
35 133835 Fastner, Christmas Tree Gr. 5						
				131	STD533710	Bolt, RDHD SQNK 3/8-16 UNC
37 19131316 Washer 13/32 x 13/16 x 16 x 1 Gauge 132 19132203 Spacer Washer 13/32 LD. x 1-	37	19131316		132	19132203	Spacer Washer 13/32 I.D. x 1-
40 STD541437 Nut Crownlock 3/8-16 UNC 3/8 O.D. x 1/4	40	STD541437	Nut Crownlock 3/8-16 UNC			
41 133551 Rod, Pivot, with Nibs 141 6266H Washer Thrust .75 x 1 230	41	133551		141		
43 140083 Rod, Clutch, Secondary, with 130794 Mandrel Assembly (Includes Nibs Key Numbers 8-10, 12-15, 31	43		Nibs	~ 5	130794	Key Numbers 8-10, 12-15, 31
44 140088 Guard, Mandrel, L.H. and 32)			·		4 4 7 8 4 4	
45 STD624003 Retainer 145411 Mower Deck, Complete 46 137729 Screw Thd Boll 1/4-20 v 5/8 (Standard Deck, Order					145411	
Separately Mulcher Plate and						
48 133944 Washel, Hardened Gauge Wheel Components.						
49 155066 Holler Assembly, Cam Follower Key Nos. 101-106 and 111-121)						Key Nos. 101-106 and 111-121)
50 131340 Bolt, Shoulder #10-24 Grade 5 NOTE: All component dimensions given in U.S. inches	50	131340	Bolt, Shoulder #10-24 Grade 5	NOT	F- All componer	•
1 inch = 25.4 mm						

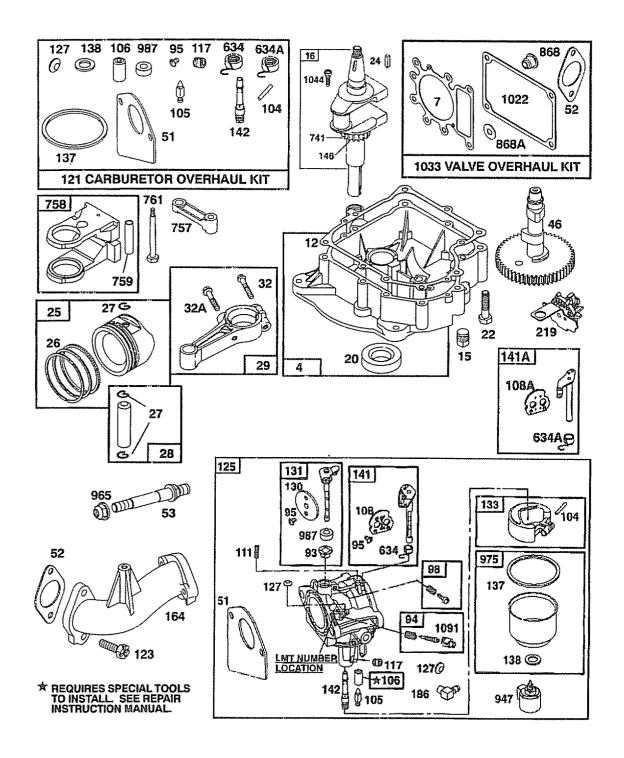
# TRACTOR - - MODEL NUMBER 917.270641 HYDRO TRANSAXLE - - MODEL NUMBER 310-0500

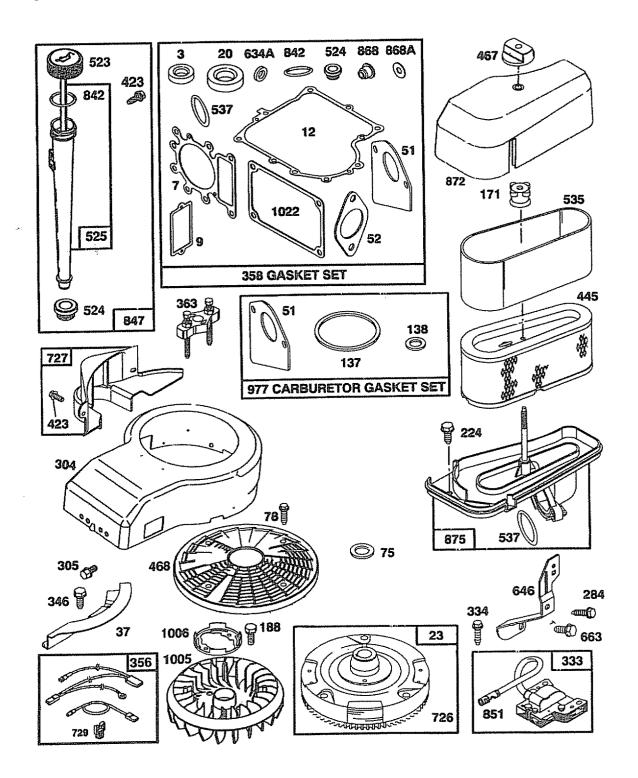


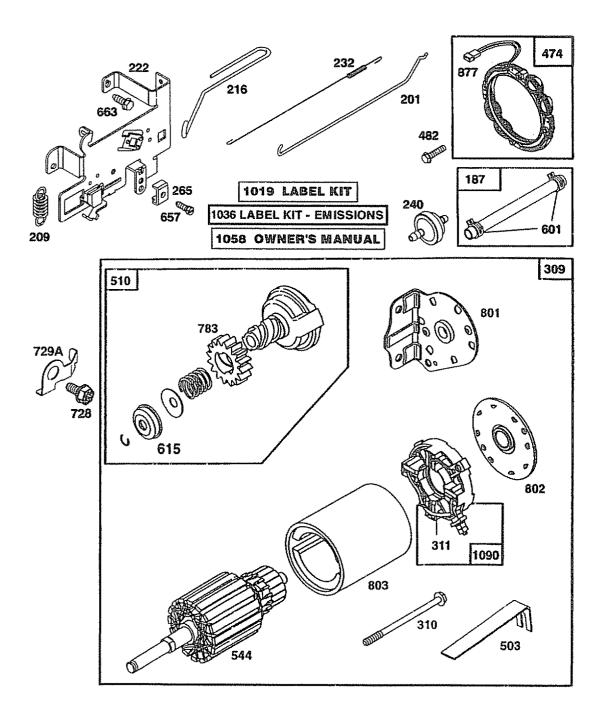
# TRACTOR - - MODEL NUMBER 917.270641 HYDRO TRANSAXLE - - MODEL NUMBER 310-0500

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	142986	Housing, Lower	40	150778	Locknut, Hex 5/16-24 UNJC
2	142987	Assembly, Upper Housing	41	142958	Brake Rotor/Stator Kit
3	142932	Seal, Lip	43	142884	Washer 7/16 x 7/8 x .060
4	142928	Ring, Wire Retaining	44	142990	Differential Assembly
5	142933	Ring, Retaining	52	142991	Washer 3/4 x 1.5 x .13
6	142934	Bearing, Shaft Ball	53	142961	Seal75 x 1.25 x250
7	142935	Bearing, Cradle	56	142963	Shaft, Input
8	150771	Bearing, Thrust 30 x 52 x 13	58	142964	Bolt 1/4-20 x 1.38
9	142937	Swashplate, Variable	59	142965	Pin5 OD x43 ID x750
13	142938	Block, Cylinder Assembly	62	142966	Am, Control
14	142939	Arm, Trunnion	63	142967	Puck, Dampener
15	142940	Seal, Lip	64	142920	Set Screw
17	142941	Guide, Slot	68	142969	Spring
18	150772	Shaft, Motor	69	144610	Stud 5/16-24
19	150773	Bearing, Thrust 42 x 68 x 16	92	142977	Spring, Block
23	142944	Block, Cylinder Assembly	93	142978	Washer, Block Thrust
24	142945	Seal, Lip 10 x 25 x 7	98	142993	Sleeve Bearing
25	142946	Actuator, Bypass	99	142976	Seal, Wiper
26	150774	Center Section Assembly Kit	113	142917	Cap, Vent Assembly
27	142948	Seal, Lip 26 x 42 x 8	114	142918	Fitting, O-Ring Assembly
28	142949	Ring, Retaining	119	142980	Spacer
29	142950	Washer 26 x 35 x 1	134	144607	Nut, Castle 5/16-24
30	150787	Nut, Jam_	135	144608	Pin, Cotter
34	142951	Oil Filter Element	139	150775	Spring, Compression
35	142952	Arm, Bypass	140	150776	Nut, Hex 5/16-24
36	142953	Ring, Retaining			
37	142954	Arm, Actuating		4.11	
38	142955	Pin, Actuating	NOIE	•	ent dimensions given in U.S. inches
39	150777	Bolt 5/16-24 x 1-3/4		1 inch = 25.	4 mm





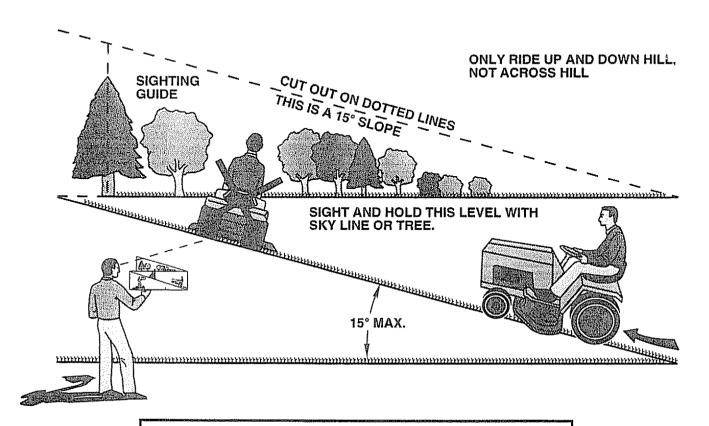




KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	496412	Cylinder Assembly	93	281346	Bushing, Throttle Shaft
2	399265	Bearing, Cylinder	94	498030	Valve, Needle
3	391086	* Seal, Oil	95	94098	** Screw, Throttle
4	494238	Base, Engine	98	495800	Screw, Idle Speed
5	495858	Head, Cylinder	104	231789	** Pin, Float Hinge
7	273280	*** Gasket, Cylinder Head	105	231855	** Valve Float
8	495735	Breather Assembly	106	231854	** Seat, Inlet Valve
9	27803	<ul> <li>Gasket, Valve Cover</li> </ul>	108	224558	Valve, Choke (Lmt 153)
10	94621	Screw, Sems	108A	224540	Valve, Choke (Lmt 154)
11	281246	Tube, Breather	111	262715	Spring Choke (Lmt 155)
12	271916	<ul> <li>Gasket, Crankcase Cover, .015</li> </ul>		232118	** Jet, Needle Valve (Std.)
	271997	<ul> <li>Gasket, Crankcase Cover, .005</li> </ul>		232119	Jet, Needle Valve (Hi-Alt.)
	271996	<ul> <li>Gasket, Crankcase Cover, 009</li> </ul>		499233	Carburetor Overhaul Kit
13	94728	Screw, Cylinder Head	123	94913	Screw, Elbow Mounting
15	94239	Plug, Oil Drain	125	499153	Carburetor Assembly
16	498971	Crankshaft	127	004500	** Plug, Welch (Sold in Kit Only)
	94196	Timing Gear Key	130	224539	Valve, Throttle
20	291675	* Seal, Oil	131	494379	Shaft and Lever, Throttle Float, Carburetor
22	94624	Screw, Sems, Base Mounting	133 137	494381 281165	**** Gasket, Float Bowl
23	492326	Flywheel and Ring Gear	138	281164	**** Washer, Bowl
24	222698	Assembly, Magneto Key, Flywheel	141	495097	Choke, Shaft Kit (Choke-A-
24 25	495860	Piston Assembly, Standard Size		400007	Matic)
دع	495977	Piston Assembly, .010"  Oversize	141A	495931	Choke, Shaft Kit (Choke-A- Matic)
	495978	Piston Assembly, .020"	142	232117	** Nozzle, Carburetor
		Oversize	146	94196	Key, Timing Gear
	495979	Piston Assembly, .030"	164	214047	Elbow, Carburetor
		Oversize	166	94555	Stud, Rocker Arm
26	495854	Ring Set, Piston, Standard Size		281051	Nut, Air Cleaner Mounting
	495852	Ring Set, Piston, .010" Oversize Ring Set, Piston, .020" Oversize		493496	Connector, Hose
	495851 495855	Ring Set, Piston, .030" Oversize		298099 94627	Line, Fuel (Cut to Suit) Screw, Sems
27	263129	Lock, Piston Pin	188 192	492160	Screw Assembly, Rocker Arm
28	498319	Pin Assy., Piston, Standard Size	€ 201	262767	Link, Governor
20	498320	Pin Assy., Piston, .005"	209	260695	Spring, Governor
	100000	Oversize	216	262766	Link, Choke
29	494504	Rod Assembly, Connecting	219	490815	Gear, Governor
	495490	Rod Assembly, Connecting,	222	495611	Plate, Governor Control
		.020" Undersize Crankpin Bore	224	94905	Screw, Sems, Air Cleaner
32	94695	Screw, Hex Washer Head,	225	495157	Crank, Governor
		1-57/64	227	493935	Lever Assembly, Governor
32A	94648	Screw, Hex Washer Head, 1- 5/8	230	94742	Washer, Governor Crank
00	400000	Valve, Exhaust	232	262785	Spring, Governor Link
33	495856 495857	Valve, Intake	238	262836	Cap, Valve
34 35	262811	Spring, Valve	240	394358	Filter, Fuel (In Fuel Line)
35 37	224502	Guard, Flywheel	265	221535	Clamp, Casing
40	224641	Retainer, Valve Spring	284	94704	Screw, Hex Head
45	262411	Tappet, Valve			
46	496884	Gear, Cam	*		in Gasket Set (495993)
51	272465	**** Gasket, Carburetor	**		in Carburetor Kit (499233)
31	212403	(Carburetor to Elbow)	***		in both Gasket Set (495993) and
52	272569	*** Gasket, Carburetor			rerhaul Kit (495992)
- Um		(Elbow to Cylinder)	****		in Gasket Set (495993), Carburetor
53	94637	Stud, Carburetor Mounting		(494385)	233) and Carburetor Gasket Set
75	225136	Washer, Spring		1-134300	,
78	94832	Screw, Pan Head	NOTE	E: All comp	onent dimensions given in U.S. inches
87	491323	* Seal, Governor Shaft		inch = 25.	

	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	C	DESCRIPTION
305   34786   Screw, Hex, Head,   759   298909   Pin, Counterweight   Screw, Counterweight   Screw, Cylinder   761   94593   Screw, Counterweight   34930   Screw, Cylinder Shield   301   394856   Cap, Drive   Cap, End   3497602   Bolt, Thru   803   497605   Cap, End   3497602   Bolt, Thru   803   497604   Housing, Starter   302   497605   Cap, End   3497602   Bolt, Thru   803   497604   Housing, Starter   303   497604   Housing, Starter   304   397604   Housing, Starter   304   394731   Screw, Sems, Armature   851   224110   Terminal, Ignition Cable   Mounting   868   494435   "Seal Assembly, Valve   39705   Screw, Hex Head   871   262835   Bushing, Guide (Intake & Exhaust)   Exhaust)   Screw, Hex Head   871   262835   Bushing, Guide (Intake & Exhaust)   Screw, Sems   34903   Screw, Sems   347   497672   Solenoid   394703   Screw, Sems   347   497672   Solenoid   394439   Screw, Sems   347   497672   Solenoid   394439   Screw, Flush Rolating   375   495930   Cartridge, Air Cleaner   395   394010   Nut, Hex   39374   Stater   Stater   3944100   Strap, Starter   3964100   Strap, Starter   397   281156   Screw, Sems   397   393456   Diode and Connector Assembly   Screw, Flush Rolating   397   499385   Carburetor Gasket Set   39373   Screw, Sems   394010   Nut, Hex   39374   Stator, Alternator   397   281156   Screw, Sems   397   281156   Screw, Sems   397   281156   Screw, Sems   397   281156   Screw, Sems   397   393456   Screw, Sems   393621   Screw, Sems   393621   Scr	294	810068	Screw, Set	757	213998		Link, Counterweight
Screw, Hex, Head,   759   298909   Pin, Counterweight			•				
Blower Housing Mounting   751   94593   Screw, Counterweight   94595   Screw, Cylinder Shield   801   394856   Cap, Drive   Cap, End   97602   Bolt, Thru   803   497604   Housing, Starter   802   497605   Cap, Drive   Cap, End   394856   Cap, Drive   Cap, End   Gard, Starter   Single Price   Cap, End   Gard, Starter   Single Price   Cap, End   Gard, Cap, End   Gar							
306   225020   Shield, Cylinder   788   280104   Gear, Starter   307   94930   Screw, Cylinder Shield   801   394856   Cap, Drive   309   497505   Motor, Starter   802   497605   Cap, End   497606   Brush Set   842   270920   Seal, Oil Filler Cap   331   497608   Brush Set   842   270920   Seal, Oil Filler Cap   333   495859   Armature, Magneto   847   496415   Fill Group, Oil   334   94731   Screw, Sems, Armature   868   494435   Screw, Hex Head   871   252835   Bushing, Guide (Intake & Exhaust)   Screw, Hex Head   871   252835   Bushing, Guide (Intake & Exhaust)   Screw, Hex Head   871   252835   Bushing, Guide (Intake & Exhaust)   Screw, Sems   947   497672   Solenoid   Nut, Hex   493903   Screw, Sems   947   497672   Solenoid   Nut, Hex   493903   Kanto, Air Cleaner   965   94010   Nut, Hex   493903   Kanto, Air Cleaner   965   94010   Nut, Hex   493903   Screw, Sems   1005   281400   Fan, Flywheel   876   895933   Bowl Assembly, Carburetor Gasket Set   3922   272475   Scal, Throttle Shaft   Fan, Flywheel   876   495862   Scal, Throttle Shaft   Fan, Flywheel   876   495865   Scal, Throttle Shaft   Fan, Flywheel   876   495865   Scal, Throttle Shaft   Fan, Flywheel   876   495865   Scal, Throttle Shaft   Fan, Flywheel   F	000	01700					
307   94930   Screw, Cylinder Shield   801   394856   Cap, Drive   310   497602   Bolt, Thru   803   497605   Brush Set   842   270920   Seal, Oil Filler Cap   Fill Group, Oil   Seal, Oil Filler Cap   Seal, Filler Cap   Seal, O	306	ววรกวก					•
309   497595   Motor, Starter   802   497605   Cajp, End			· •				
311   497602   Bolt, Thru							
331   497508   Brush Set   842   270920   Seal, Oil Filler Cap							
333 495859							<del>-</del>
337   94731   Screw, Sems, Armature   851   224110   Terminal, Ignition Cable   Mounting   868   494435   *** Seal Assembly, Valve   337   491055   Plug, Spark   868   494435   *** Seal Assembly, Valve   368   497708   Wire Assembly   497708   Wire Assembly   497708   Wire Assembly   497708   Wire Assembly   497803   Gasket Set   872   281361   Cover, Air Cleaner   583   89638   Wirench, Spark Plug   877   393456   Diode and Connector Assembly   497803   Screw, Sems   947   497672   Solenoid   Nut, Hex   493903   Screw, Sems   947   497672   Solenoid   Nut, Hex   493903   Knob, Air Cleaner   975   495933   Bowl Assembly, Carburetor Gasket Set   494439   Screen, Flush Rotating   977   494385   Carburetor Gasket Set   494439   Screw, Sems   1005   281160   Seal, Throttes Shaft   584   Screw, Sems   1005   281400   Fan, Flywheel   Fan							
Mounting			· —				
337   491055   Plug, Spark   868A   272810   *** Gasket, Valve   Screw, Hex Head   871   262835   Bushing, Guide (Intake & Exhaust)   Exhaust)   Screw, Hex Head   872   281361   Cover, Air Cleaner   Body,	334	94/31					
346   93705   Screw, Hex Head   871   262835   Bushing, Guide (Intake & Exhaust)   Screw, Air Cleaner   Schaust)   Schaust)   Screw, Air Cleaner   Schaust)   Schau	007	404055	<del></del>			***	• •
356         497708         Wire Assembly         Exhaust)           368         495933         Gasket Set         872         281361         Cover, Air Cleaner           363         19203         Puller, Flywheel         875         495862         Body, Air Cleaner           383         89838         Wrench, Spark Plug         877         393456         Diode and Connector Assembly           423         94903         Screw, Sems         947         497672         Solenoid           445         493909         Cartiridge, Air Cleaner         95         94010         Nut, Hex           467         493903         Knob, Air Cleaner         975         495533         Bowl Assembly, Carburetor           468         494439         Screen, Flush Rotating         977         494385         Carburetor Gasket Set           474         393474         Stator, Alternator         987         281166         "Seal, Throttle Shaft           503         80600         Strap, Starter         1005         281400         Fan, Flywheel           524         281370         Seal, Filler Tube         1022         2242455         Label Kit           535         272403         Element, Filter         1026         494432         <						1.84	
358         495993         Gasket Set         872         281361         Cover, Air Cleaner           363         19203         Puller, Flywheel         875         495862         Body, Air Cleaner           383         89838         Wrench, Spark Plug         877         393456         Diode and Connector Assembly           423         94903         Screw, Sems         947         497672         Solenoid           445         493909         Cartridge, Air Cleaner         965         495933         Bowl Assembly, Carburetor           467         493903         Knob, Air Cleaner         975         495933         Bowl Assembly, Carburetor           468         494439         Screen, Flush Rotating         977         494385         Carburetor Gasket Set           474         393474         Stator, Alternator         987         281166         Seal, Throttle Shatt           482         93621         Screw, Sems         1005         2811400         Fan, Flywheel           503         806000         Strap, Starter         1006         224413         Retainer, Fan           510         497608         Drive, Starter         1022         224755         "Gover, Rocker Arm           524         281370         Seal				871	262835		
363   39203			•				•
383         89838         Wrench, Spark Plug         877         393456         Diode and Connector Assembly           423         94903         Screw, Sems         947         497672         Solenoid           445         493909         Cartridge, Air Cleaner         955         94010         Nut, Hex           466         494439         Screen, Flush Rotating         977         494385         Carburetor Gasket Set           474         393474         Stator, Alternator         987         281166         Seal, Throttle Shaft           482         93621         Screw, Sems         1005         281400         Fan, Flywheel           503         806000         Strap, Starter         1006         224413         Retainer, Fan           510         497606         Drive, Starter         1002         272475         "Gasket, Cover           523         495230         Cap and Dipstick, Oil Filler         1022         272475         "Gasket, Cover           525         498113         Tube, Oil Filler         1022         272475         "Gasket, Cover           525         495113         Tube, Oil Filler         1026         494432         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner<							
423         94903         Screw, Sems         947         497672         Solenoid           445         493909         Cartridge, Air Cleaner         965         94010         Nut, Hex           467         493903         Knob, Air Cleaner         975         495933         Bowl Assembly, Carburetor           468         494439         Screen, Flush Rotating         977         494385         Carburetor Gasket Set           474         393474         Stator, Alternator         987         281166         "Seal, Thipter Gasket Set           503         806000         Strap, Starter         1005         281400         Fan, Flywheel           510         497606         Drive, Starter         1005         224413         Retainer, Fan           523         495230         Cap and Dipstick, Oil Filler         1022         272475         "Gasket, Cover           524         281370         Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           537         281106         O. Phing, Air Cleaner         1029         224554         Arm, Rocker           497603         Armature, Starter			· · · · · · · · · · · · · · · · · · ·				
445         493909         Cartridge, Air Cleaner         965         94010         Nut, Hex           467         493903         Knob, Air Cleaner         975         495933         Bowl Assembly, Carburetor           468         494439         Screen, Flush Rotating         977         494385         Carburetor Gasket Set           474         393474         Stator, Alternator         987         281166         "Seal, Throttle Shaft           482         93621         Screw, Sems         1005         281400         Fan, Flywheel           503         806000         Strap, Starter         1006         224413         Retainer, Fan           510         497606         Drive, Starter         1019         496758         Label Kit           524         281370         Seal, Filler Tube         1022         272475         "Gasket, Cover           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033							
467         493903         Knob, Air Cleaner         975         495933         Bowl Assembly, Carburetor           468         494439         Screen, Flush Rotating         977         494385         Carburetor Gasket Set           474         393474         Scator, Alternator         987         281166         "Seal, Throttle Shaft           482         93621         Screw, Sems         1005         281400         Fan, Flywheel           503         806000         Strap, Starter         1006         224413         Retainer, Fan           510         497606         Drive, Starter         1019         496758         Label Kit           523         495230         Cap and Dipstick, Oil Filler         1022         272475         "Gasket, Cover           524         281370         * Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         * O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter		94903	,		497672		
468         494439         Screen, Flush Rotating         977         494385         Carburetor Gasket Set           474         393474         Stator, Alternator         987         281166         "Seal, Throttle Shaft           482         93621         Screw, Sems         1005         224413         Retainer, Fan           503         806000         Strap, Starter         1006         224413         Retainer, Fan           510         497606         Drive, Starter         1019         496758         Label Kit           523         495230         Cap and Dipstick, Oil Filler         1022         2727475         "Gasket, Cover           524         281370         Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         49432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495922         Valve Overhaul Kit           552         491986         Bushing, Governor Crank	445	493909			94010		
474         393474         Stator, Alternator         987         281166         "Seal, Throttle Shaft           482         93621         Screw, Sems         1005         281400         Fan, Flywheel           503         806000         Strap, Starter         1006         224413         Retainer, Flywheel           510         497606         Drive, Starter         1019         496758         Label Kit           523         495230         Cap and Dipstick, Oil Filler         1022         2272475         "Gasket, Cover           524         281370         Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1034         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495934         Label Kit           562         94907         Bolt, Carriage         1036 <td>467</td> <td>493903</td> <td></td> <td>975</td> <td></td> <td></td> <td>Bowl Assembly, Carburetor</td>	467	493903		975			Bowl Assembly, Carburetor
482         93621         Screw, Sems         1005         281400         Fan, Flywheel           503         806000         Strap, Starter         1006         224413         Retainer, Fan           510         497606         Drive, Starter         1019         495758         Label Kit           523         495230         Cap and Dipstick, Oil Filler         1022         272475         **** Gasket, Cover           524         281370         * Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         495113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         493364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93030         Clamp, Fuel Pipe	468	494439	Screen, Flush Rotating	977	494385		Carburetor Gasket Set
503         806000         Strap, Starter         1006         224413         Retainer, Fan           510         497606         Drive, Starter         1019         495758         Label Kit           523         495230         Cap and Dipstick, Oil Filler         1022         272475         **** Gasket, Cover           524         281370         * Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         ***O-Ping, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           614         93306         Pin, Cotter <t< td=""><td>474</td><td>393474</td><td>Stator, Alternator</td><td>987</td><td>281166</td><td>**</td><td>Seal, Throttle Shaft</td></t<>	474	393474	Stator, Alternator	987	281166	**	Seal, Throttle Shaft
510         497606         Drive, Starter         1019         496758         Label Kit           523         495230         Cap and Dipstick, Oil Filler         1022         272475         "" Gasket, Cover           524         281370         Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495992         Valve Overhaul Kit           652         94907         Bolt, Carriage         1036         499364         Label Kit         Emissions           52         231978	482	93621	Screw, Sems	1005	281400		Fan, Flywheel
523         495230         Cap and Dipstick, Oil Filler         1022         272475         *** Gasket, Cover           524         281370         Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090 </td <td>503</td> <td>806000</td> <td>Strap, Starter</td> <td>1006</td> <td>224413</td> <td></td> <td>Retainer, Fan</td>	503	806000	Strap, Starter	1006	224413		Retainer, Fan
524         281370         * Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         * O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring Assy         250	510	497606	Drive, Starter	1019	496758		Label Kit
524         281370         * Seal, Filler Tube         1023         224552         Cover, Rocker Arm           525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         * O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring Assy         250	523	495230	Cap and Dipstick, Oil Filler	1022	272475	***	Gasket, Cover
525         496113         Tube, Oil Filler         1026         494432         Rod, Push, Intake           535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         Seal, Spring Assy.         2500 <t< td=""><td>524</td><td>281370</td><td></td><td>1023</td><td>224552</td><td></td><td>Cover, Rocker Arm</td></t<>	524	281370		1023	224552		Cover, Rocker Arm
535         272403         Element, Filter         495136         Rod, Push, Exhaust           537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634A         494453         Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634         49453         Seal, Spring Assy.         496050	525	496113	Tube, Oil Filler	1026	494432		Rod, Push, Intake
537         281106         O-Ring, Air Cleaner         1029         224554         Arm, Rocker           544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           552         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         Seal, Spring Assy         2500         28N707-1026         Replacement Engine           634         Pin, Seal, Spring Assy<	535	272403			495136		Rod, Push, Exhaust
544         497603         Armature, Starter         1033         495992         Valve Overhaul Kit           552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         Seal, Spring Assy         2500         28N707-1026         Replacement Engine           634         494455         Seal, Spring Assy         496050         Replacement Shortblock           635         280872         Boot, Spark Plug         RPM Seltings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems         1ncluded in Gasket Set (495993	537	281106	* O-Ring, Air Cleaner	1029	224554		
552         491986         Bushing, Governor Crank         1034         495248         Guide Assembly, Push Rod           562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         "Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634A         494455         "Seal, Spring Assy.         ———         496050         Replacement Shortblock           635         280872         Boot, Spark Plug         *Brace, Air Cleaner         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems         *Included in Gasket Set (495993)           728         399576         Gear, Ring         *Inclu			The state of the s				*
562         94907         Bolt, Carriage         1036         499364         Label Kit, Emissions           592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634A         494455         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Shortblock           635         280872         Boot, Spark Plug         Brace, Air Cleaner         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems         ** Included in Gasket Set (495993)           663         94620         Screw, Self-Tapping         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring         *** Included in Gasket Set (4959							
592         231978         Nut, Hex         1044         94673         Screw, Hex Head           601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634A         494455         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Shortblock           635         280872         Boot, Spark Plug         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Self-Tapping         ** Included in Gasket Set (495993)           728         399676         Gear, Ring         *** Included in Carburetor Kit (499233)           729         281390         Clip, Wire         Kit (499233) and Carburetor Gasket Set           729			<del>-</del>				*·
601         93053         Clamp, Fuel Pipe         1054         270723         Tie, Cable           614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634A         494455         ** Seal, Spring Assy.         ————————————————————————————————————							•
614         93306         Pin, Cotter         1058         272623         Manual, Owner's           615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634A         494455         ** Seal, Spring Assy.         —         496050         Replacement Shortblock           635         280872         Boot, Spark Plug         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Air Cleaner         RPM Settings: Low: 1650-1850, High: 3200-3400           663         94620         Screw, Self-Tapping         * Included in Gasket Set (495993)           718         230192         Pin, Dowel         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring         *** Included in Gasket Set (495993), Carburetor           727         490324         Cover, Starter         *** Included in Gasket Set (495993), Carburetor           728         94951         Screw, Torx®         Kit (499233) and Carburetor Gasket Set           729         281390							15
615         263080         Retainer         1090         497607         Retainer, Brush           618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634A         494455         ** Seal, Spring Assy.         —         496050         Replacement Shortblock           635         280872         Boot, Spark Plug         Brace, Air Cleaner         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems         Forew, Sems         ** Included in Gasket Set (495993)           663         94620         Screw, Self-Tapping         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring         *** Included in both Gasket Set (495993) and Valve Overhaul Kit (495992)           727         490324         Cover, Starter         **** Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (495993)           729         281390         Clip, Wire         Kit (499233) and Carburetor Gasket Set (494385)           729A         225170         Retainer, Wire         NOTE: All component dimensions given in U.S. inches							
618         262803         Spring, Choke Return         1091         281364         Cap, Limiter           634         494453         ** Seal, Spring Assy         2500         28N707-1026         Replacement Engine           634A         494455         ** Seal, Spring Assy         — 496050         Replacement Shortblock           635         280872         Boot, Spark Plug         RPM Settings: Low: 1650-1850, High: 3200-3400           646         224546         Brace, Air Cleaner         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems           663         94620         Screw, Self-Tapping         * Included in Gasket Set (495993)           718         230192         Pin, Dowel         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring (Includes Mounting Hardware)         *** Included in Gasket Set (495993), Carburetor           727         490324         Cover, Starter         **** Included in Gasket Set (495993), Carburetor           728         94951         Screw, Torx®         Kit (499233) and Carburetor Gasket Set           729         281390         Clip, Wire         (494385)           729A         225170         Retainer, Wire         NOTE: All component dimensions given in U.S. inches							
634         494453         ** Seal, Spring Assy.         2500         28N707-1026         Replacement Engine           634A         494455         ** Seal, Spring Assy.         — 496050         Replacement Shortblock           635         280872         Boot, Spark Plug         Replacement Shortblock           646         224546         Brace, Air Cleaner         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems           663         94620         Screw, Self-Tapping         * Included in Gasket Set (495993)           718         230192         Pin, Dowel         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring (Includes Mounting Hardware)         *** Included in Gasket Set (495993) and Valve Overhaul Kit (495992)           727         490324         Cover, Starter         **** Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (49593)           729         281390         Clip, Wire         (494385)           729A         225170         Retainer, Wire         NOTE: All component dimensions given in U.S. inches							
634A         494455         ** Seal, Spring Assy         —         496050         Replacement Shortblock           635         280872         Boot, Spark Plug         ** PM Settings: Low: 1650-1850, High: 3200-3400           646         224546         Brace, Air Cleaner         RPM Settings: Low: 1650-1850, High: 3200-3400           657         94906         Screw, Sems           663         94620         Screw, Self-Tapping         ** Included in Gasket Set (495993)           718         230192         Pin, Dowel         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring (Includes Mounting Hardware)         *** Included in both Gasket Set (495993) and Valve Overhaul Kit (495992)           727         490324         Cover, Starter         **** Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (495993)           728         94951         Screw, Torx®         Kit (499233) and Carburetor Gasket Set (494385)           729A         225170         Retainer, Wire         NOTE: All component dimensions given in U.S. inches			• •			าวล	
635 280872 Boot, Spark Plug 646 224546 Brace, Air Cleaner RPM Settings: Low: 1650-1850, High: 3200-3400 657 94906 Screw, Sems 663 94620 Screw, Self-Tapping Included in Gasket Set (495993) 718 230192 Pin, Dowel Included in Carburetor Kit (499233) 726 399676 Gear, Ring Included in both Gasket Set (495993) and Valve Overhaul Kit (495993) and Valve Overhaul Kit (495992) 727 490324 Cover, Starter Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (495993) and Carburetor Gasket Set (494385) 729 281390 Clip, Wire (494385) 729 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches			our ob. ag. as.			120	
646 224546 Brace, Air Cleaner RPM Settings: Low: 1650-1850, High: 3200-3400 657 94906 Screw, Sems 663 94620 Screw, Self-Tapping Included in Gasket Set (495993) 718 230192 Pin, Dowel Included in Carburetor Kit (499233) 726 399676 Gear, Ring Included in both Gasket Set (495993) and (Includes Mounting Hardware) 727 490324 Cover, Starter Valve Overhaul Kit (495992) 728 94951 Screw, Torx® Kit (499233) and Carburetor Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (494385) 729A 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches					430030		replacement chomblock
657         94906         Screw, Sems           663         94620         Screw, Self-Tapping         * Included in Gasket Set (495993)           718         230192         Pin, Dowel         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring (Includes Mounting Hardware)         **** Included in both Gasket Set (495993) and Valve Overhaul Kit (495992)           727         490324         Cover, Starter         **** Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (495993)           728         94951         Screw, Torx®         Kit (499233) and Carburetor Gasket Set (494385)           729         281390         Clip, Wire         (494385)           729A         225170         Retainer, Wire         NOTE: All component dimensions given in U.S. inches				DDMC	attinger Lou	1 <i>G</i>	EO 10EO Wiah- 0200 2400
663         94620         Screw, Self-Tapping         * Included in Gasket Set (495993)           718         230192         Pin, Dowel         ** Included in Carburetor Kit (499233)           726         399676         Gear, Ring (Includes Mounting Hardware)         *** Included in both Gasket Set (495993) and Valve Overhaul Kit (495992)           727         490324         Cover, Starter         **** Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (495993)           728         94951         Screw, Torx®         Kit (499233) and Carburetor Gasket Set (494385)           729A         225170         Retainer, Wire         NOTE: All component dimensions given in U.S. inches				FIFTING C	enngs. Lov	W. IC	330-1630, riigii. 3200-3400
718 230192 Pin, Dowel "Included in Carburetor Kit (499233) 726 399676 Gear, Ring (Includes Mounting Hardware) Valve Overhaul Kit (495993) and (Includes Mounting Hardware) 727 490324 Cover, Starter "Included in Gasket Set (495993), Carburetor 728 94951 Screw, Torx® Kit (499233) and Carburetor Gasket Set 729 281390 Clip, Wire (494385) 729A 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches					tanti intant in		akat Cat (405000)
726 399676 Gear, Ring (Includes Mounting Hardware) Valve Overhaul Kit (495993) and (Includes Mounting Hardware) Valve Overhaul Kit (495993), Carburetor Yas 94951 Screw, Torx® Kit (499233) and Carburetor Gasket Set (494385) Yas 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches							
(Includes Mounting Hardware)  727 490324 Cover, Starter  728 94951 Screw, Torx® Kit (499233) and Carburetor Gasket Set  729 281390 Clip, Wire (494385)  729A 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches							
727 490324 Cover, Starter **** Included in Gasket Set (495993), Carburetor 728 94951 Screw, Torx® Kit (499233) and Carburetor Gasket Set 729 281390 Clip, Wire (494385) 729A 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches	726	3990/6					•
728 94951 Screw, Torx® Kit (499233) and Carburetor Gasket Set 729 281390 Clip, Wire (494385) 729A 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches	****			****			
729 281390 Clip, Wire (494385) 729A 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches				4 7 7 7			
729A 225170 Retainer, Wire NOTE: All component dimensions given in U.S. inches			·		•	3) a	nd Carburetor Gasket Set
					,		
741 262932 Gear, Timing 1 inch = 25.4 mm							limensions given in U.S. inches
	741	262932	Gear, Timing	1 i	nch = 25.4  m	nm	

#### SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

For the repair or replacement parts you need delivered directly to your home Call 7 am - 7 pm, 7 days a week

1-800-366-PART

(1-800-366-7278) Para ordenar piezas con entrega a domicilio - 1-800-659-7084

For in-house major brand repair service Call 24 hours a day, 7 days a week

1-800-4-REPAIR

(1-800-473-7274)

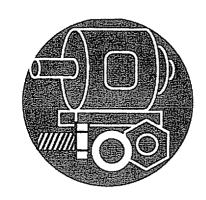
Para pedir servicio de reparación a domicilio - 1-800-676-5811

For the location of a Sears Parts and Repair Center in your area Call 24 hours a day, 7 days a week 1-800-488-1222

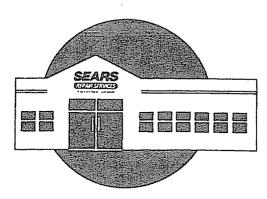
For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement Call 9 am - 5 pm, Monday-Saturday 1-800-827-6655

When requesting service or ordering parts, always provide the following information:

- Part Number Product Type
- Model Number
   Part Description











America's Repair Specialists

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